



# **FUN with NUMBERS**

Compiled by : I. STEPNOVA

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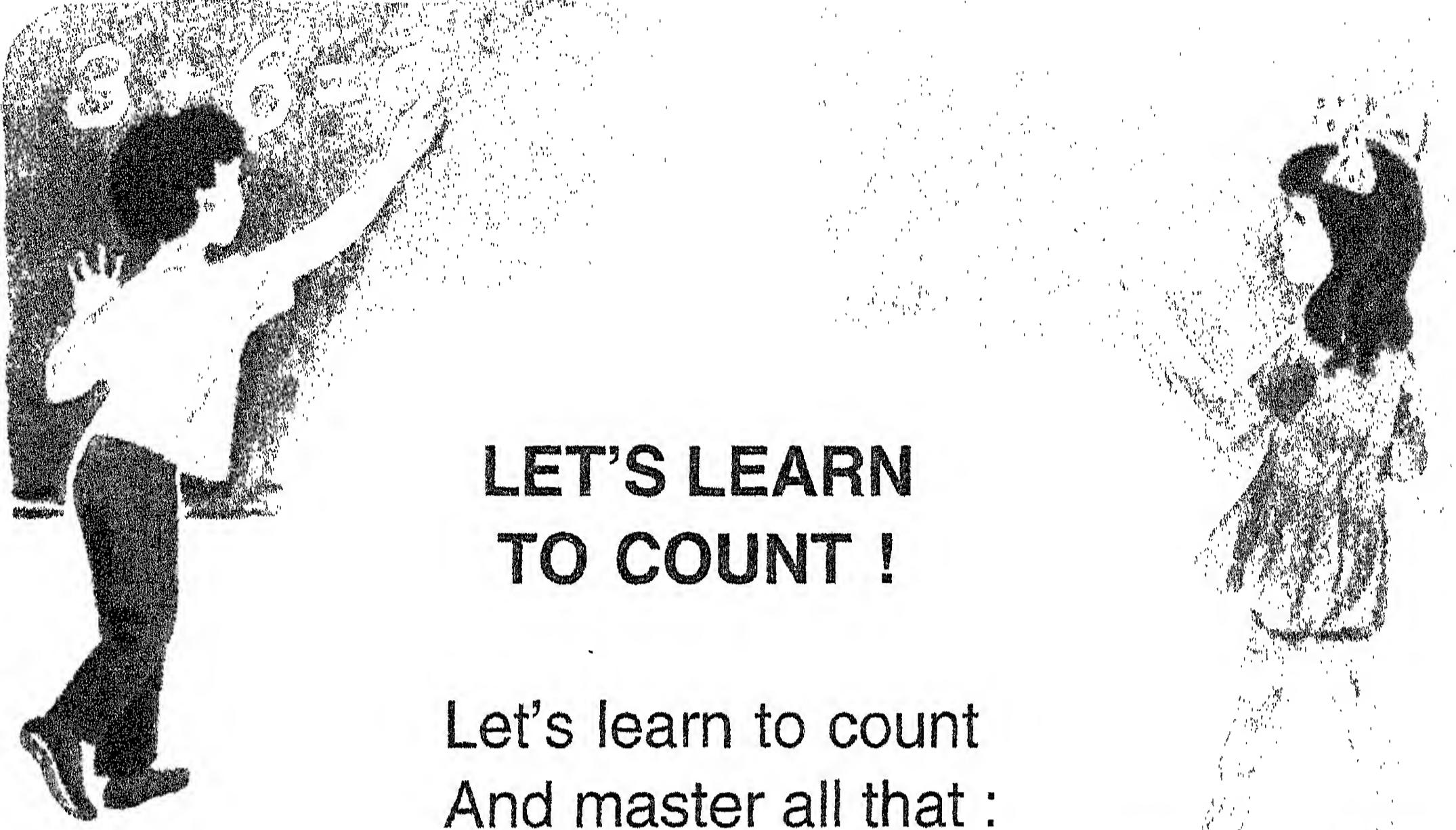
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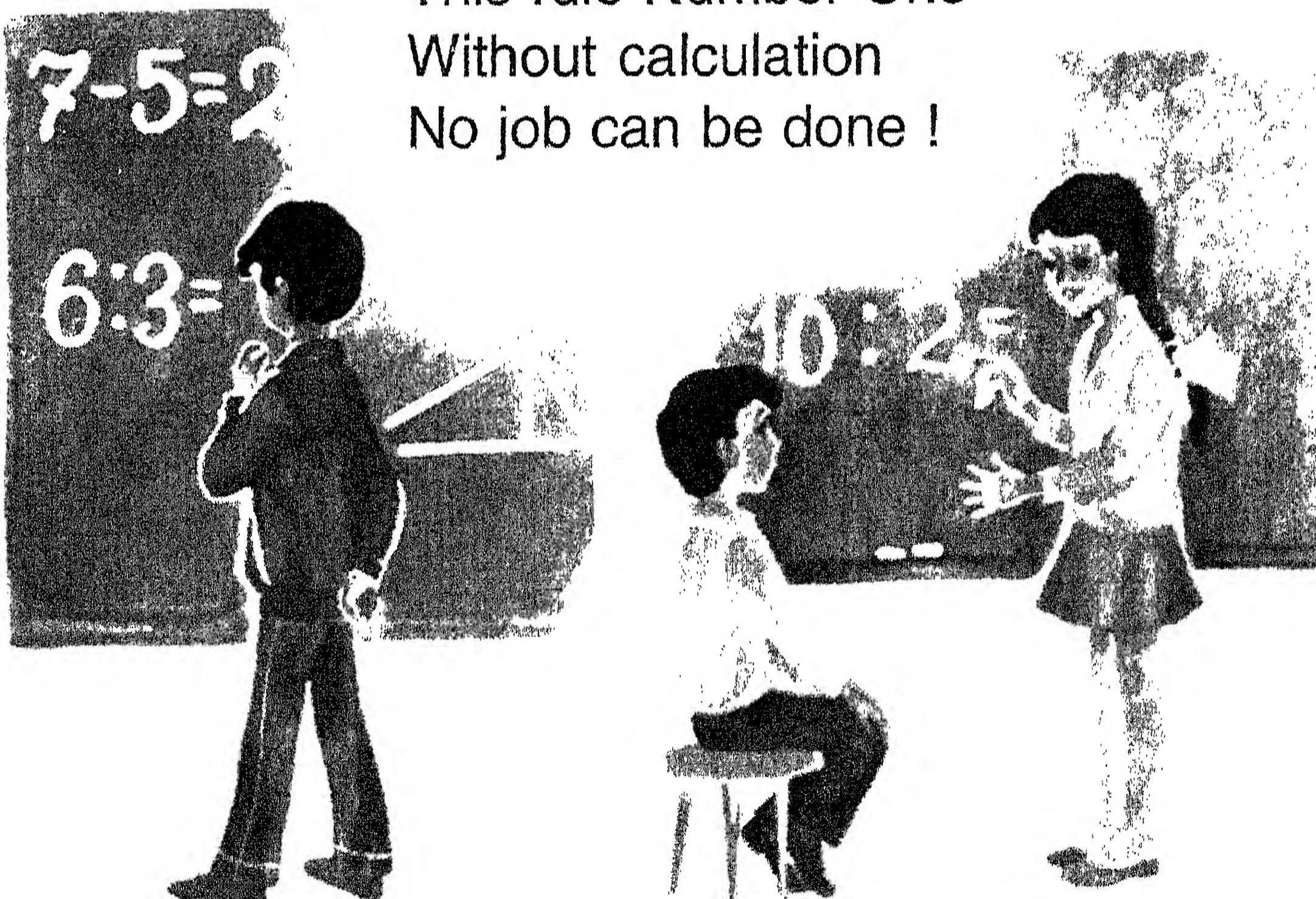
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## LET'S LEARN TO COUNT !

Let's learn to count  
And master all that :  
To divide,  
multiply,  
to subtract  
and to add !

Please, remember  
This rule Number One-  
Without calculation  
No job can be done !



# WHAT ARE THESE ?

1  
one

2  
two

3  
three

4  
four

5  
five

6  
six

7  
seven



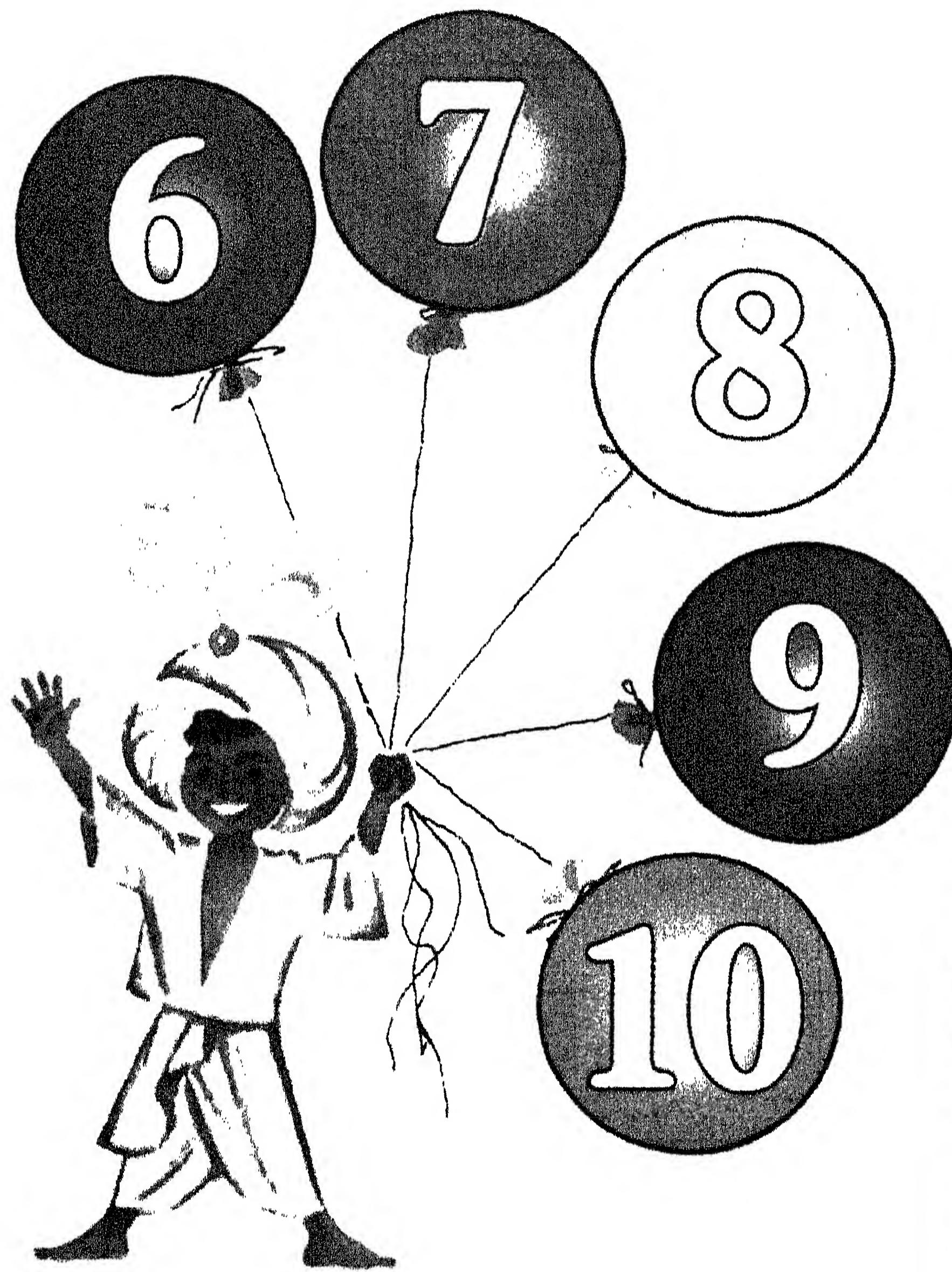
8  
eight

9  
nine

10  
ten

11  
eleven

# THEY ARE NUMBERS



**22**  
twenty two

**21**  
twenty one

**20**  
twenty

**19**  
nineteen

**18**  
eighteen

**17**  
seventeen

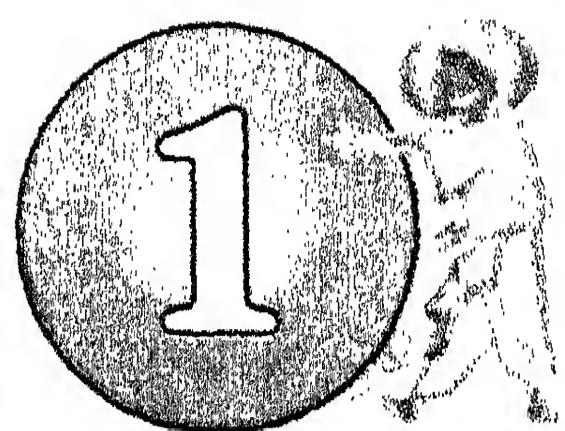
**12**  
twelve

**13**  
thirteen

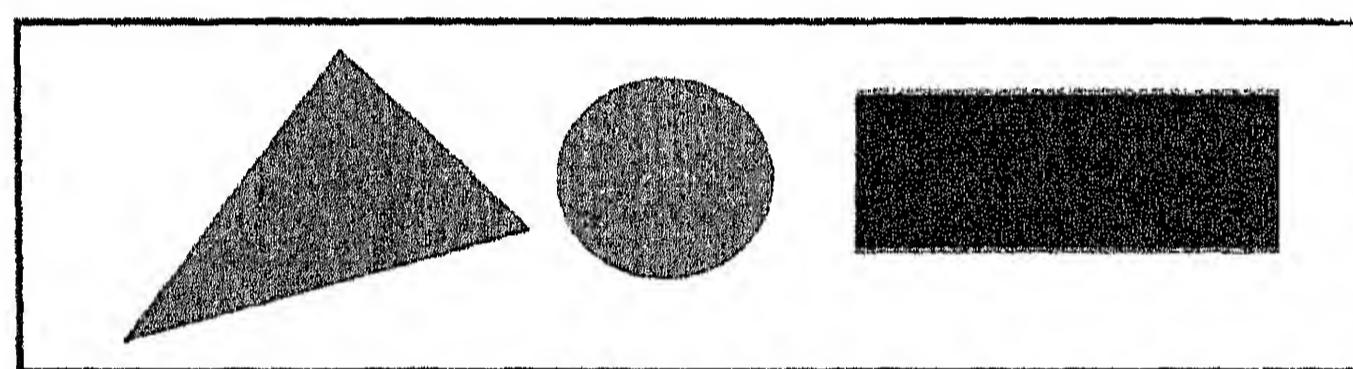
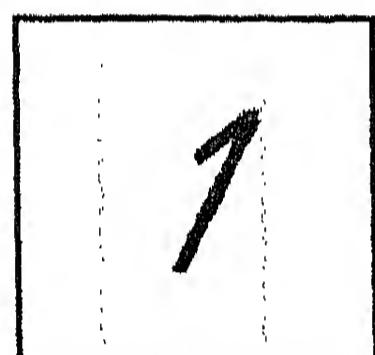
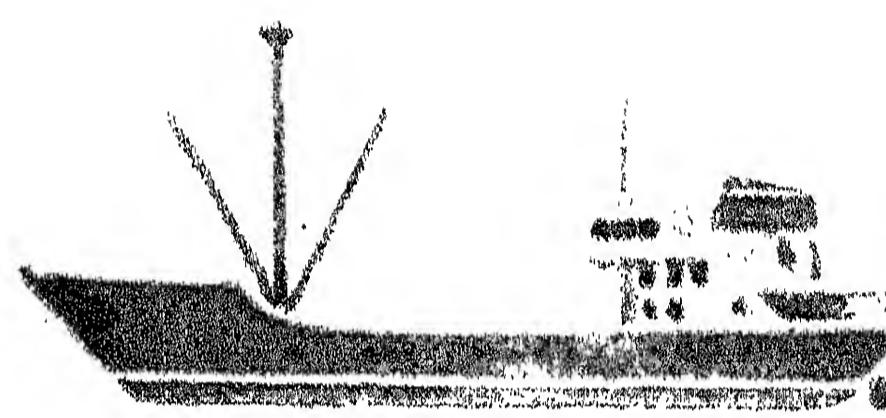
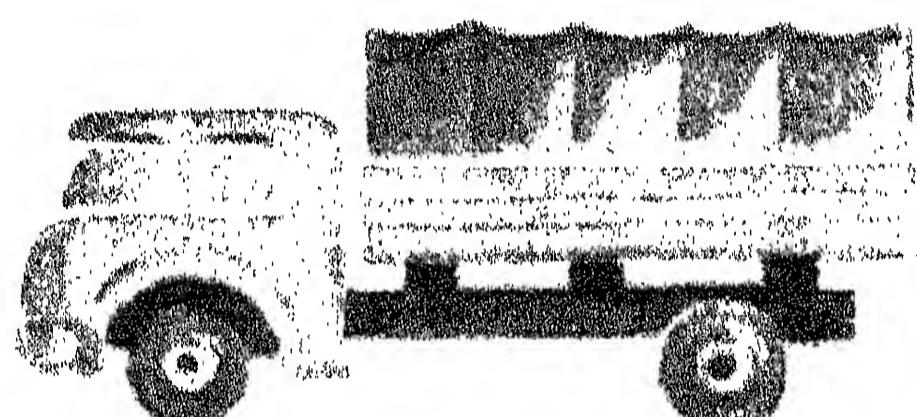
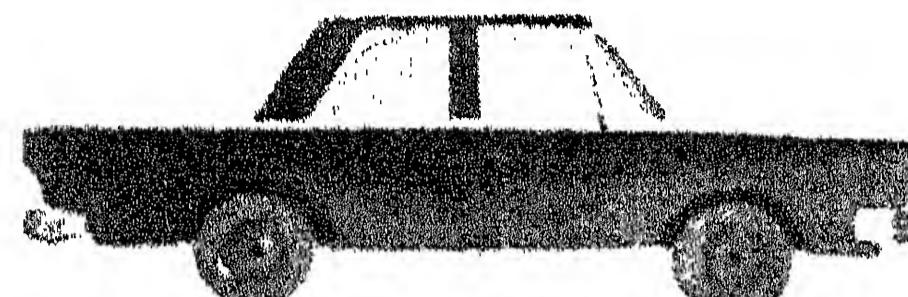
**14**  
fourteen

**15**  
fifteen

**16**  
sixteen

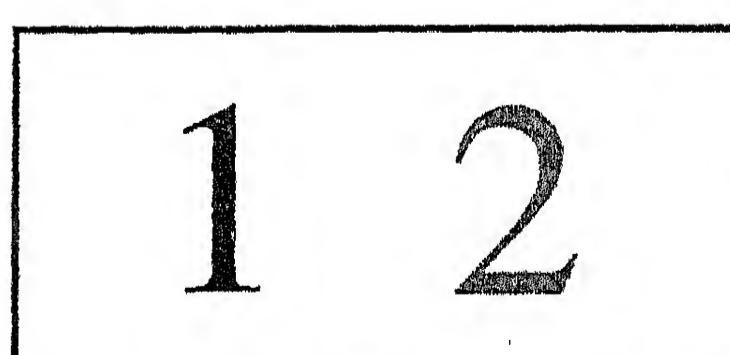
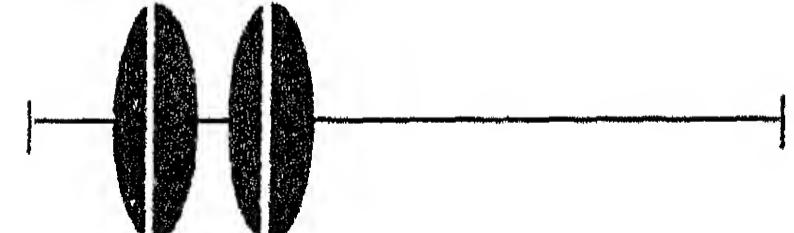
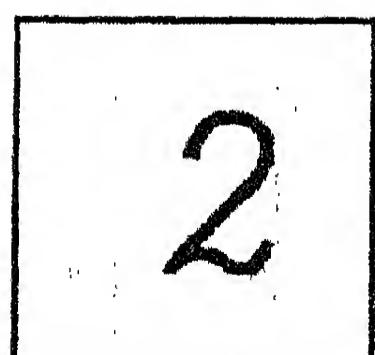
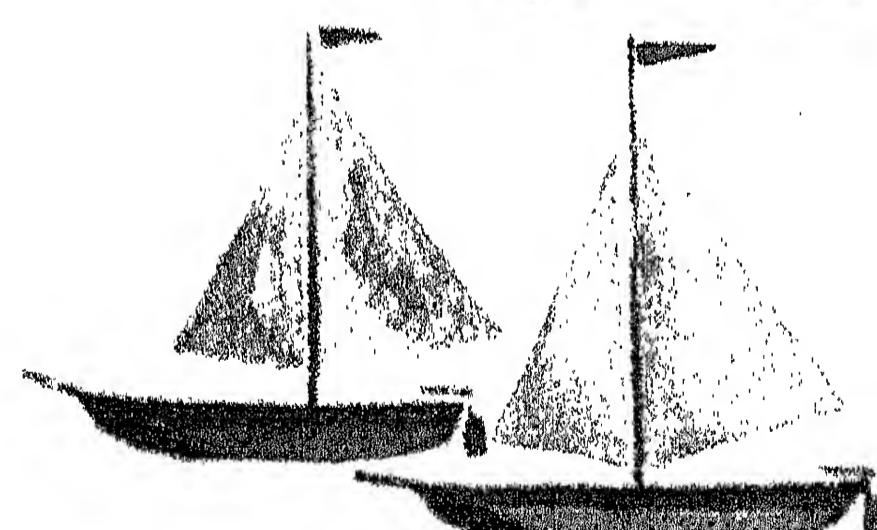
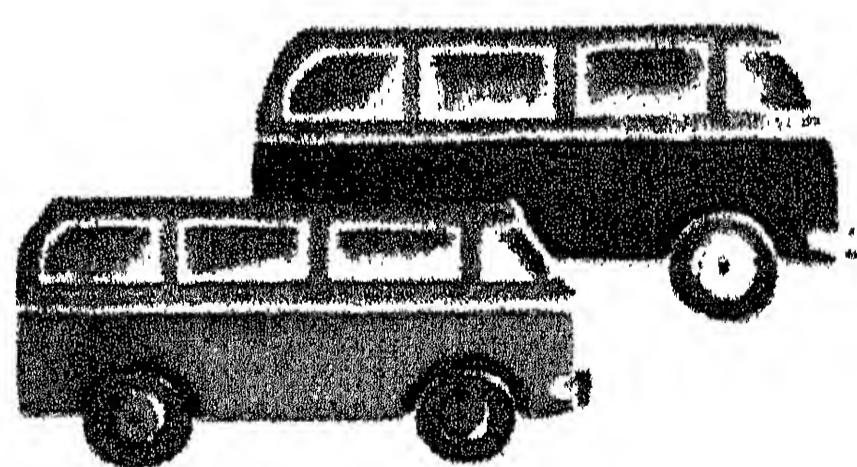
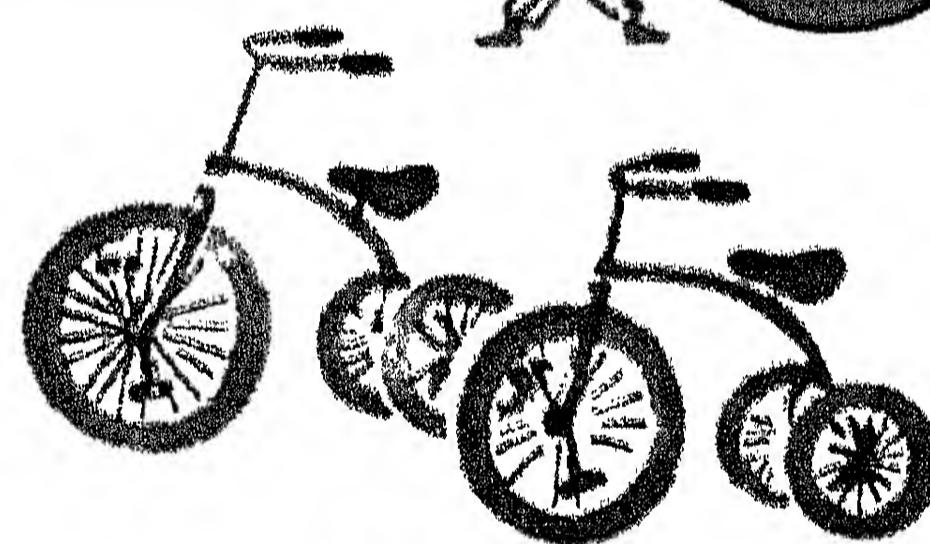
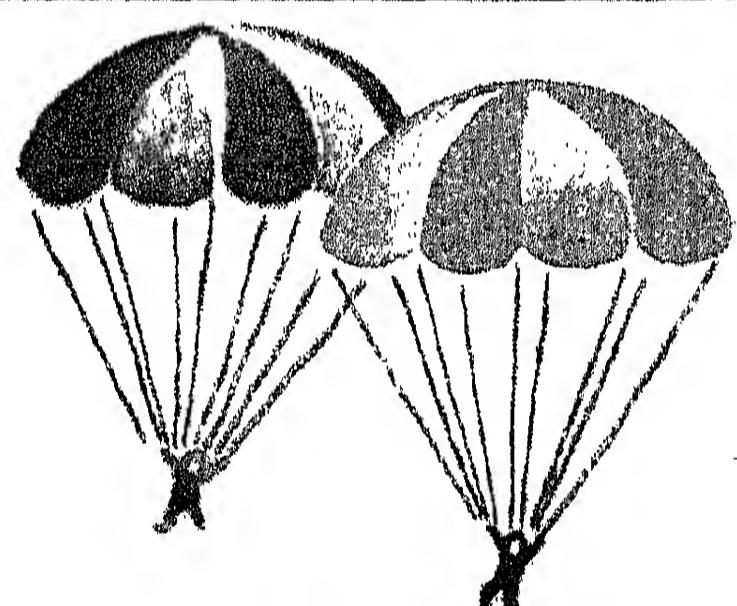


This is the number ONE  
We begin with figure One,  
It is spoke-like, lean and thin.



This is the number TWO

Have a look at figure Two.  
How does it look to you?





When numbers are added,  
the answer is called the sum.  
The sum of one and one is two.



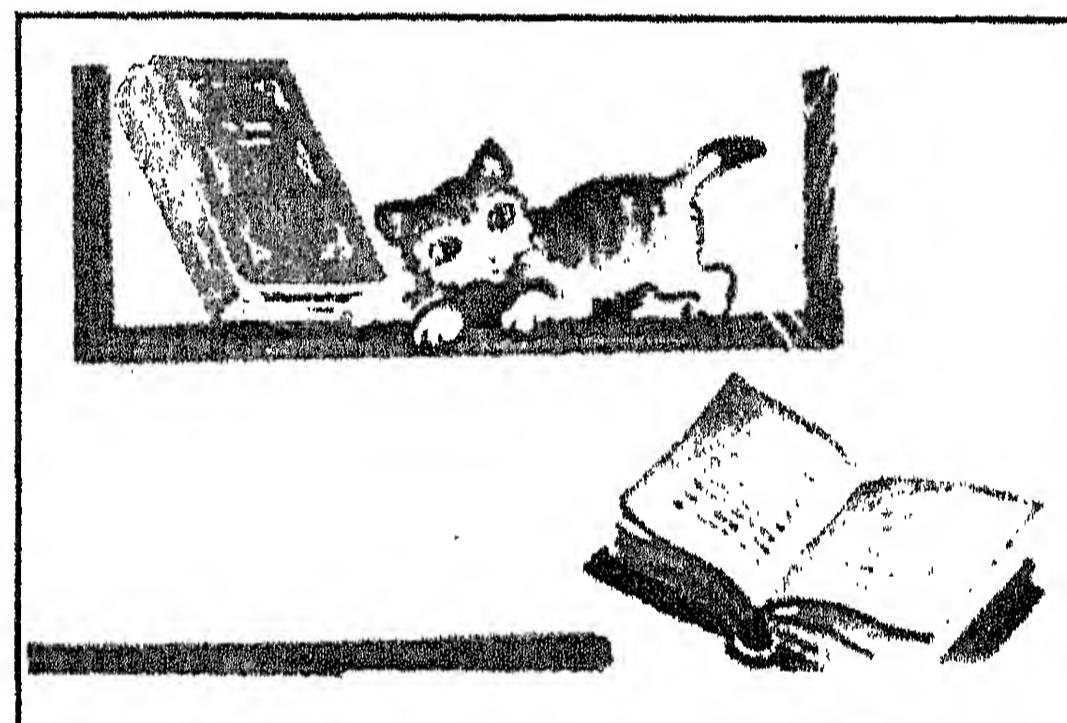
One plus one is two.



Two minus one is one.



$$1 + 1 = 2$$



$$2 - 1 = 1$$



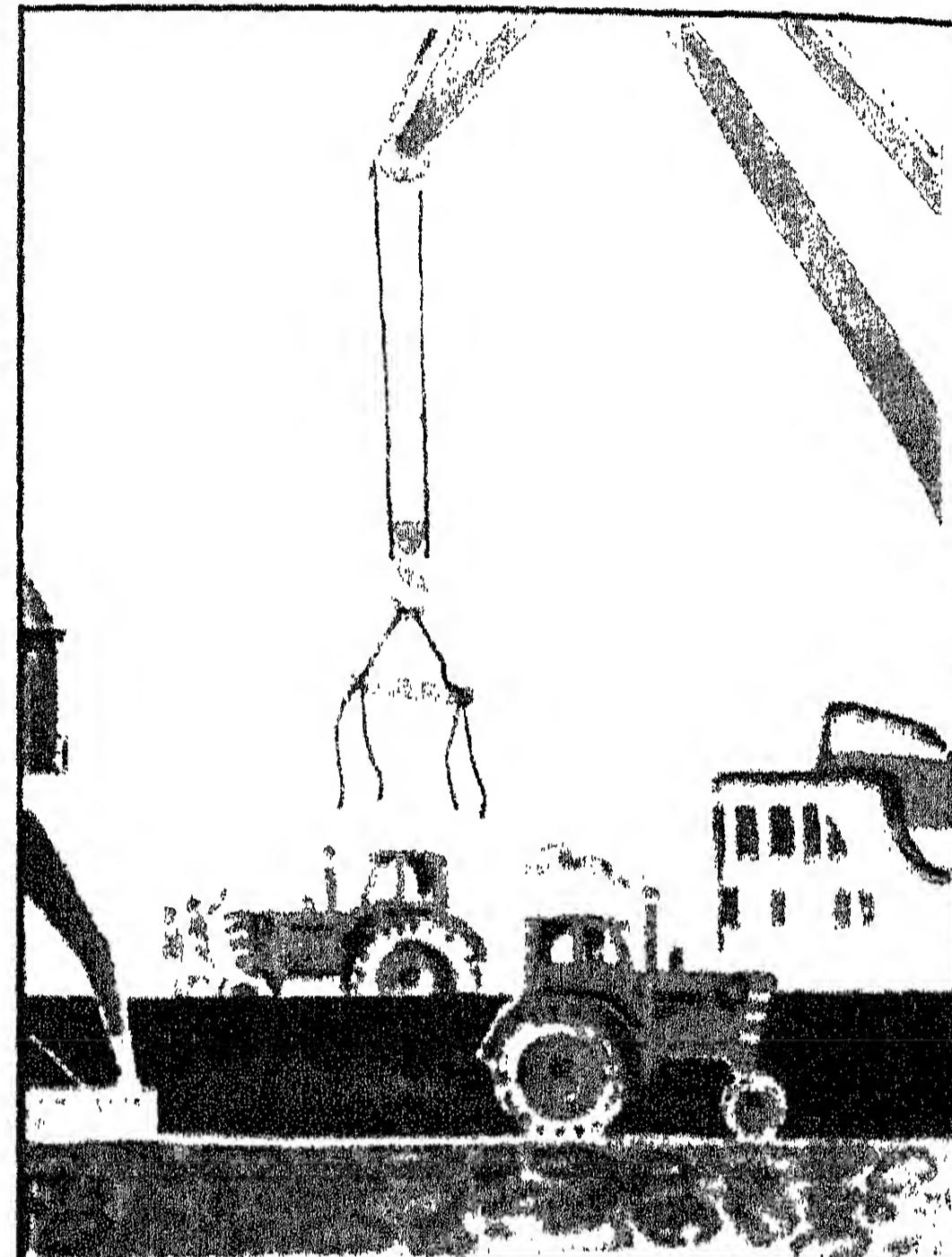
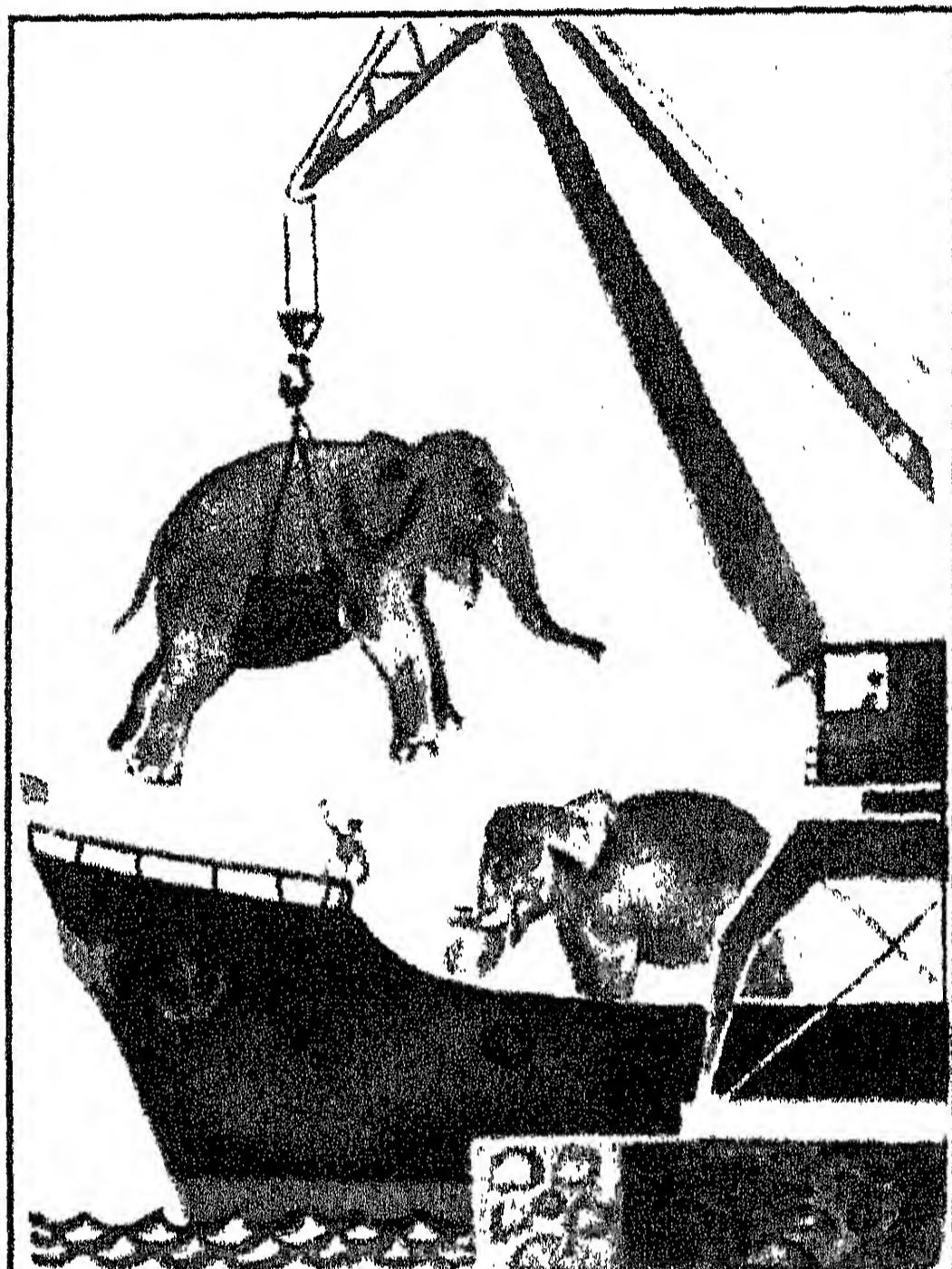
$$1 + \square = 2$$



$$2 - \square = 1$$

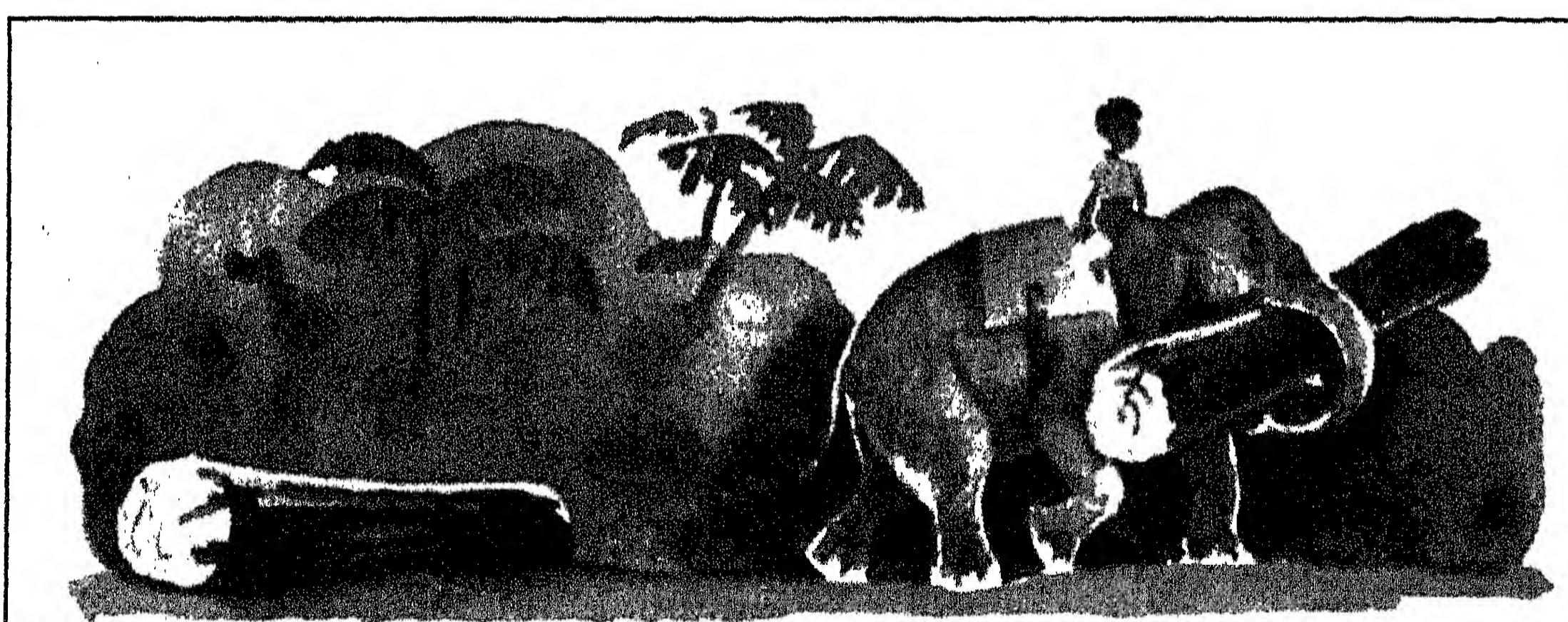
Write the right number in the square

The minus sign (-) means take away or subtract.  
One from two is one.  
 $2-1=1$



$$1 + 1 = \square$$

$$2 + \square = 1$$



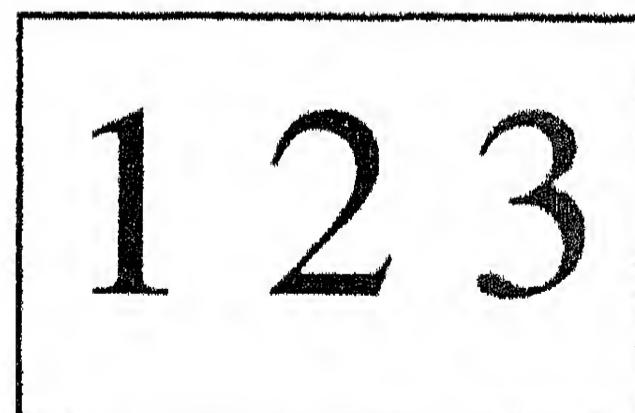
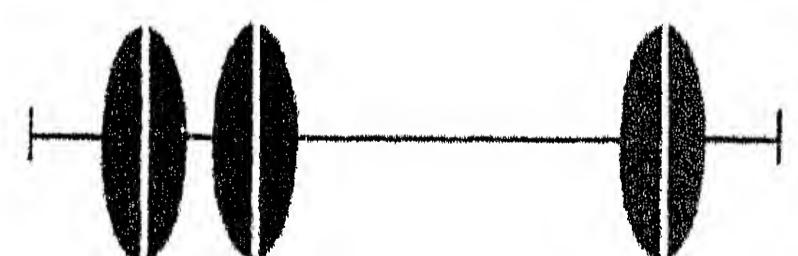
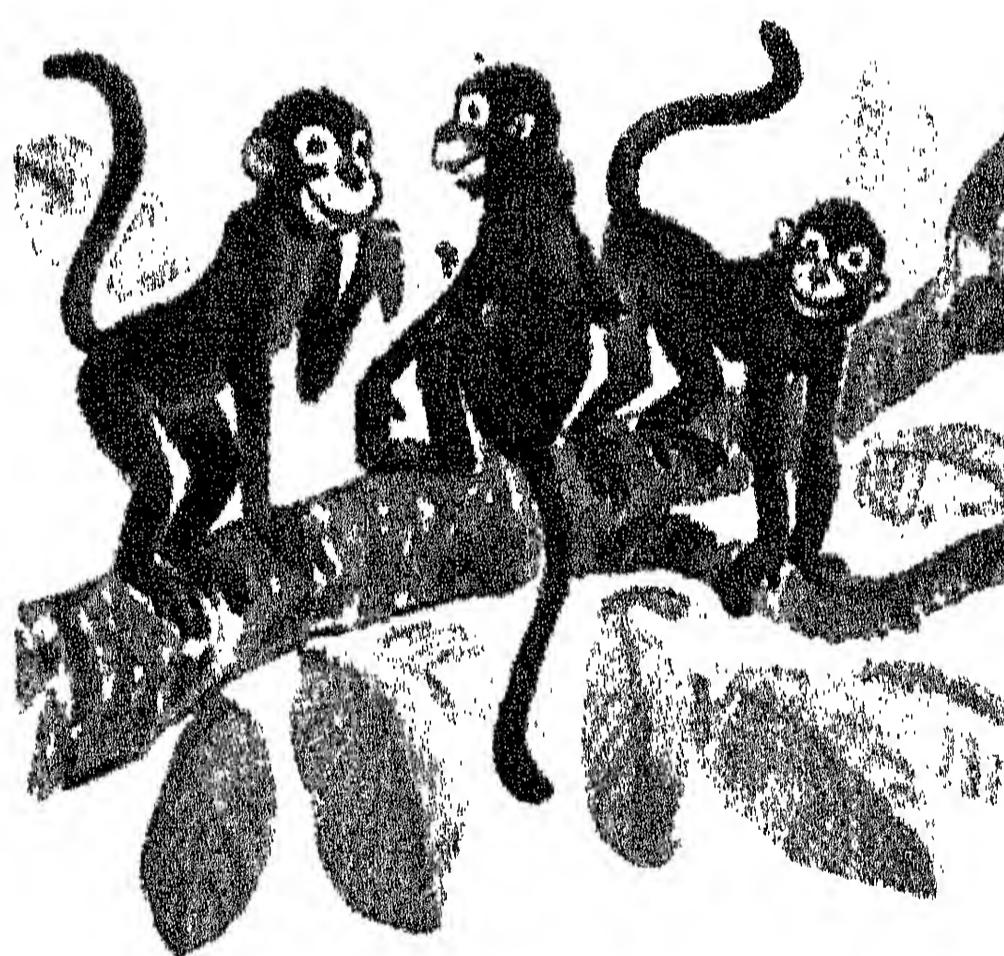
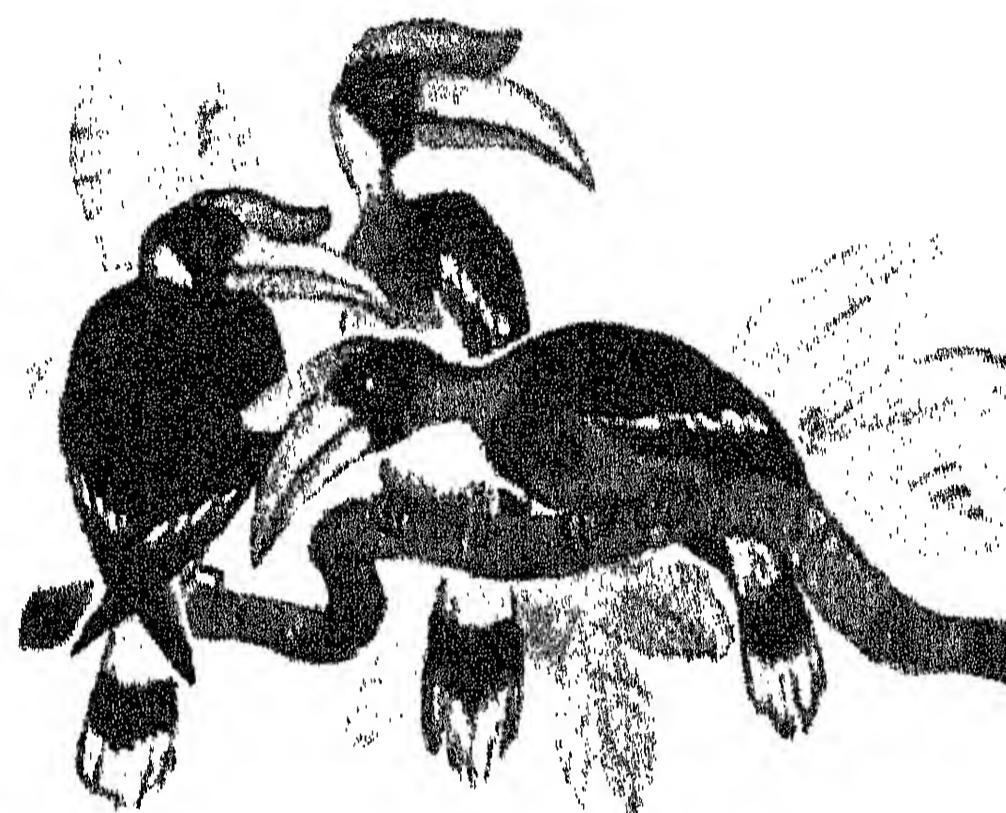
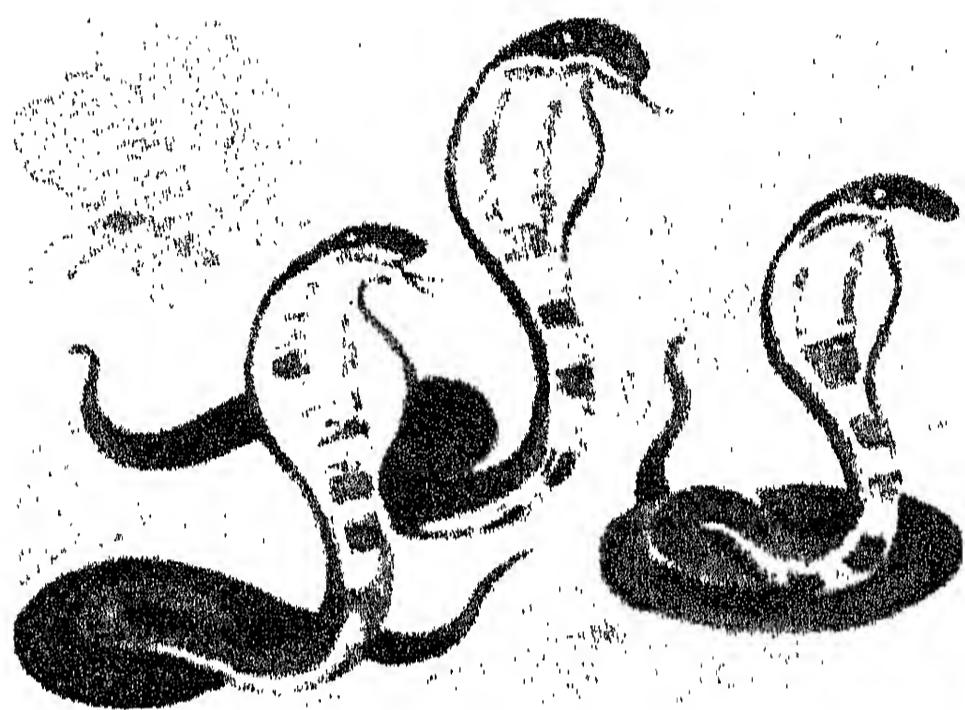
$$- 1 = 1$$



This is the number THREE

After Two, comes figure Three.

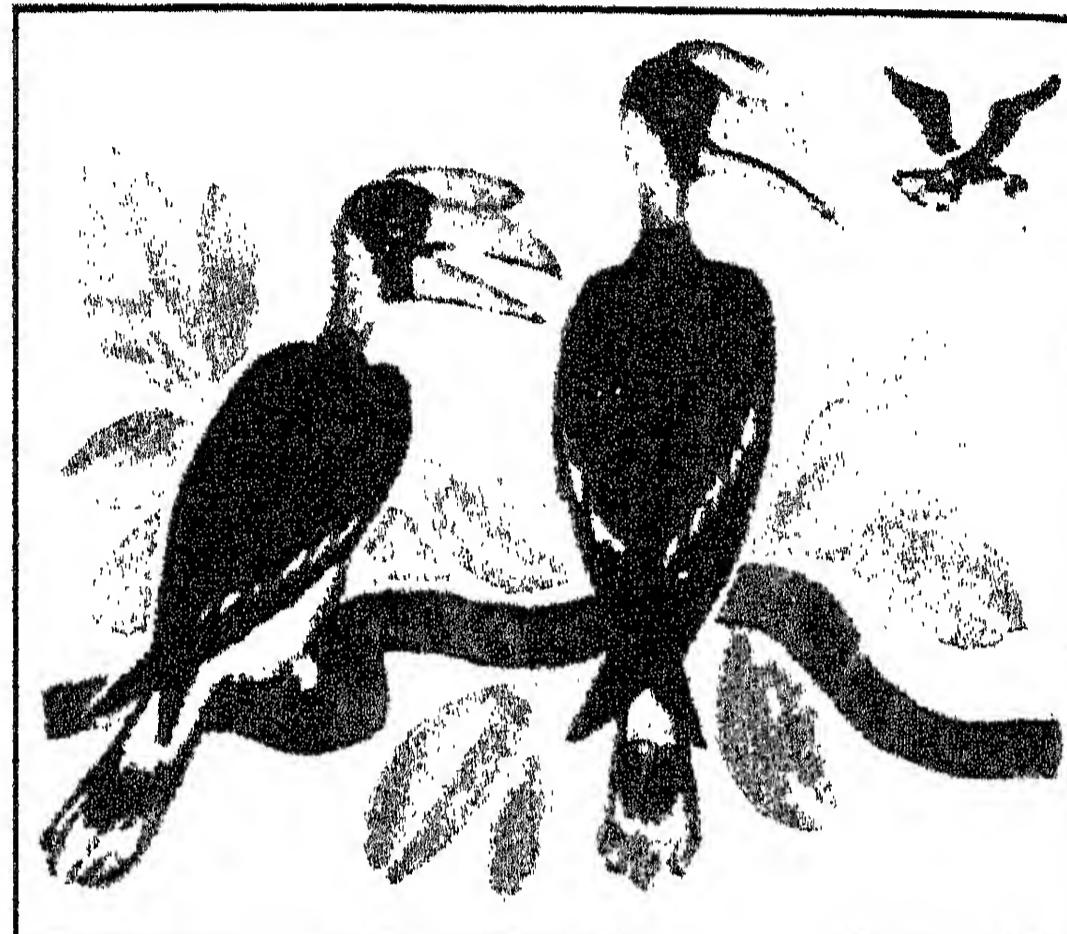
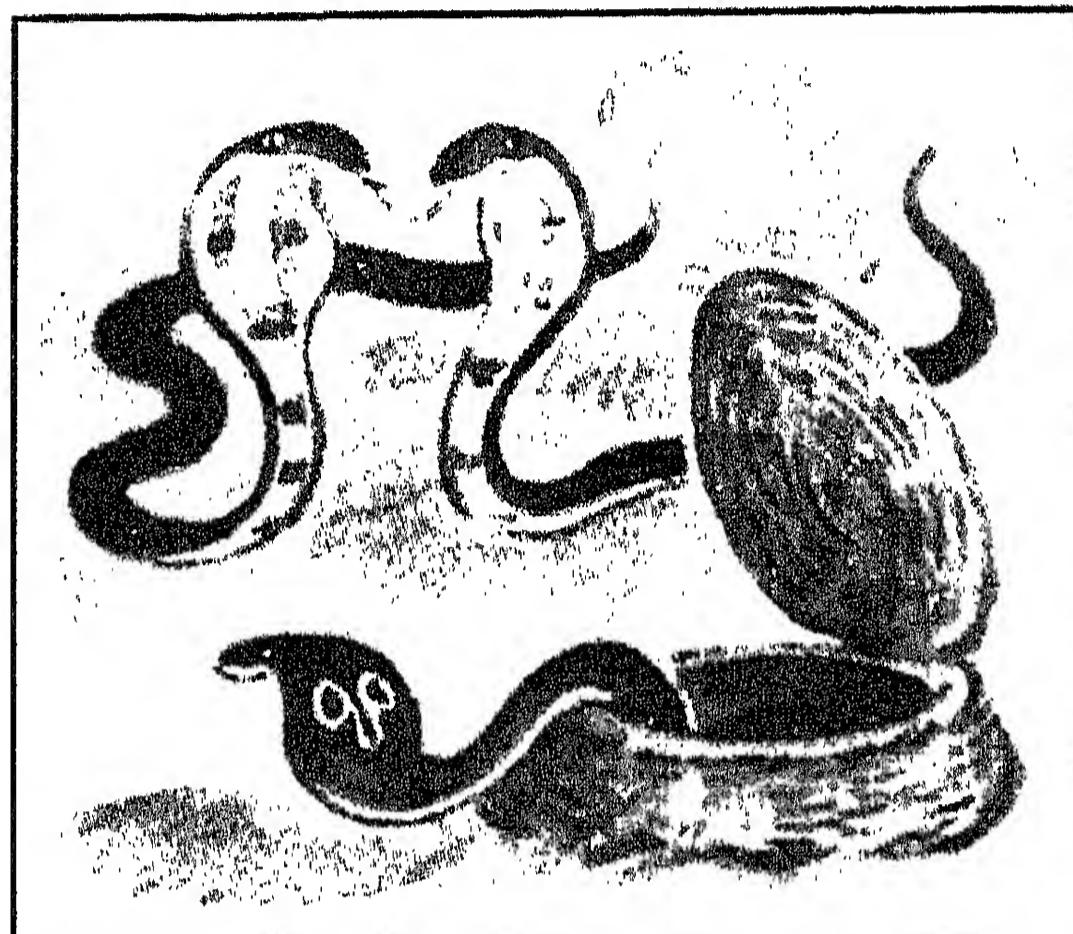
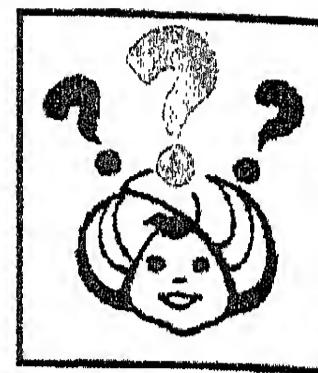
There it is. Now, can you see?



## ADD OR TAKE AWAY.

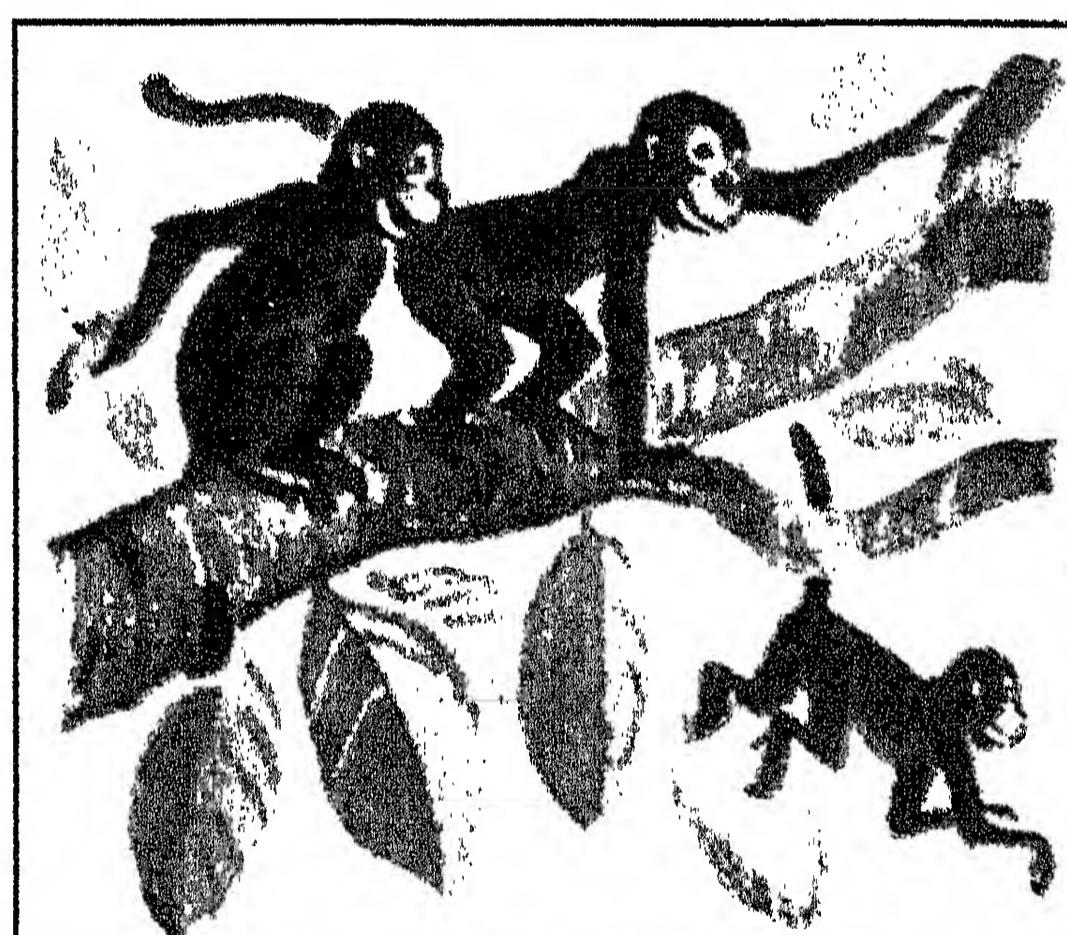
What number must be added to 1 to make 3?

What number comes after 1? after 2?



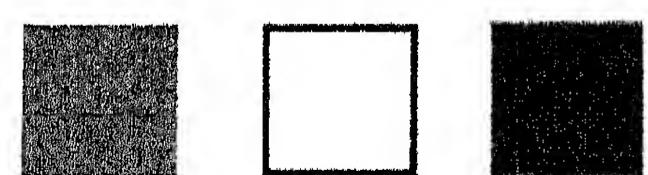
$$2 + 1 = \square$$

$$3 - 1 = \square$$



$$1 + 2 = \square$$

$$3 - 1 = \square$$



3 squares



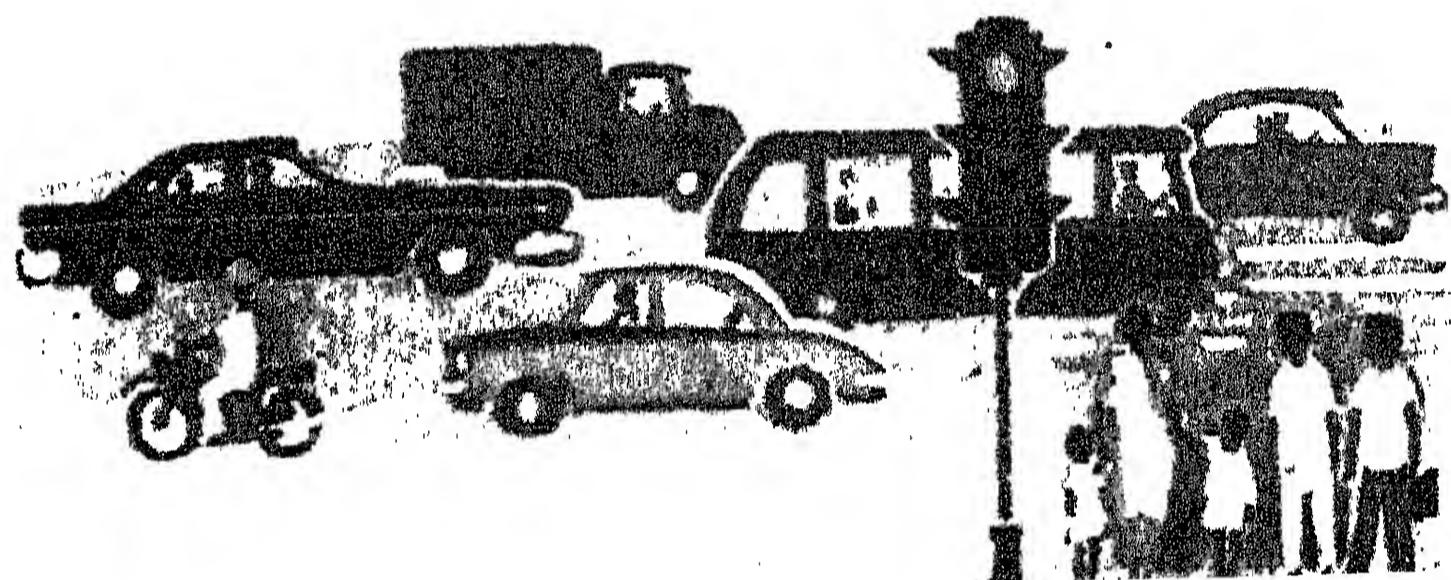
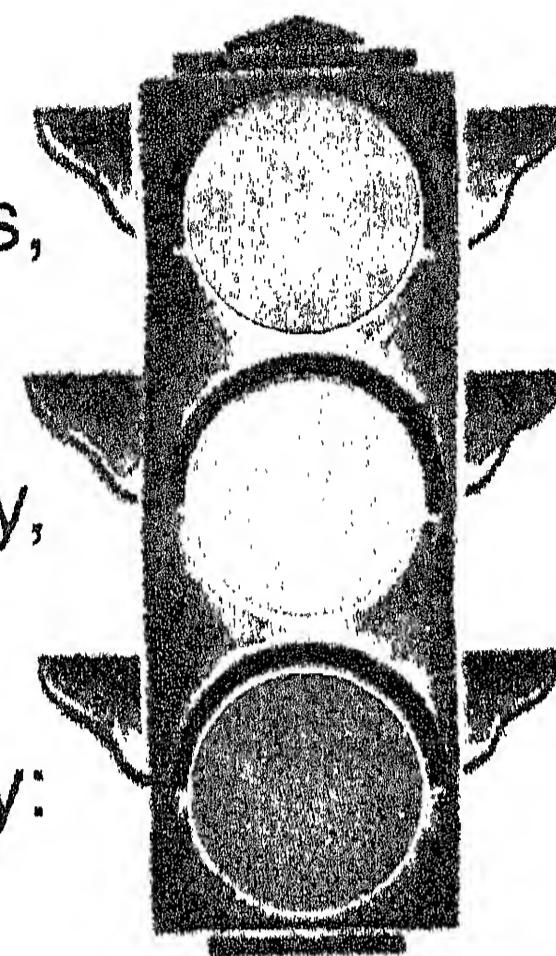
3 triangles



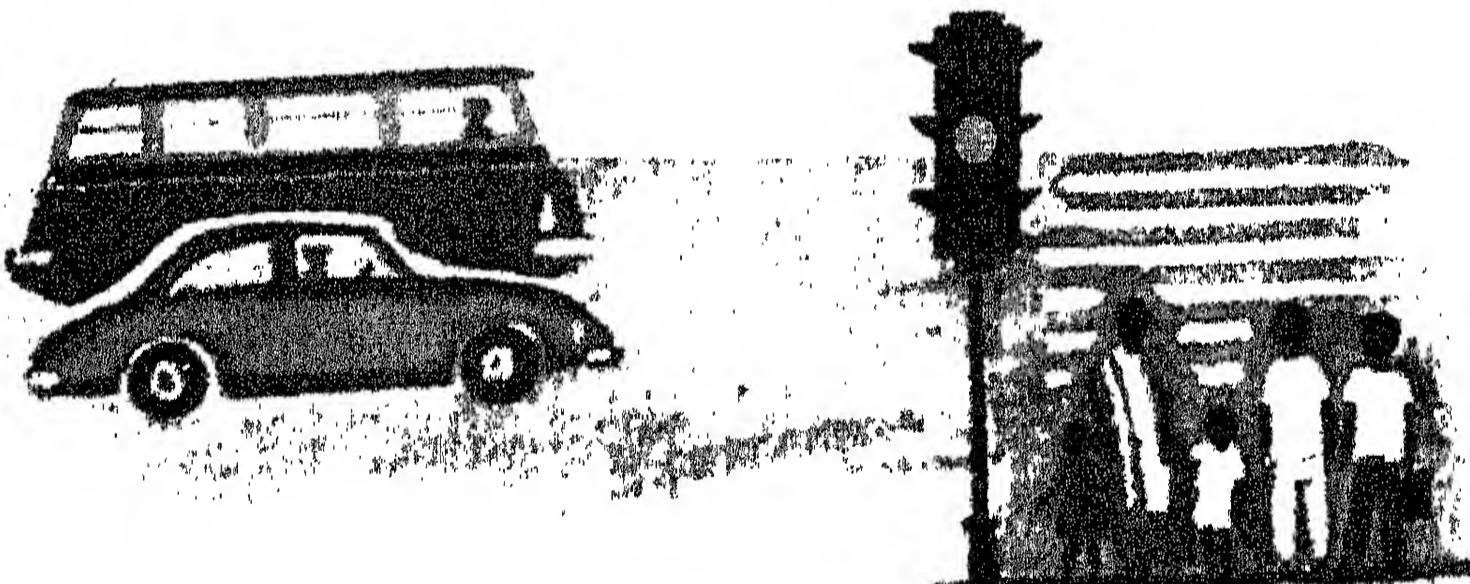
Three traffic lights,

by night or day,

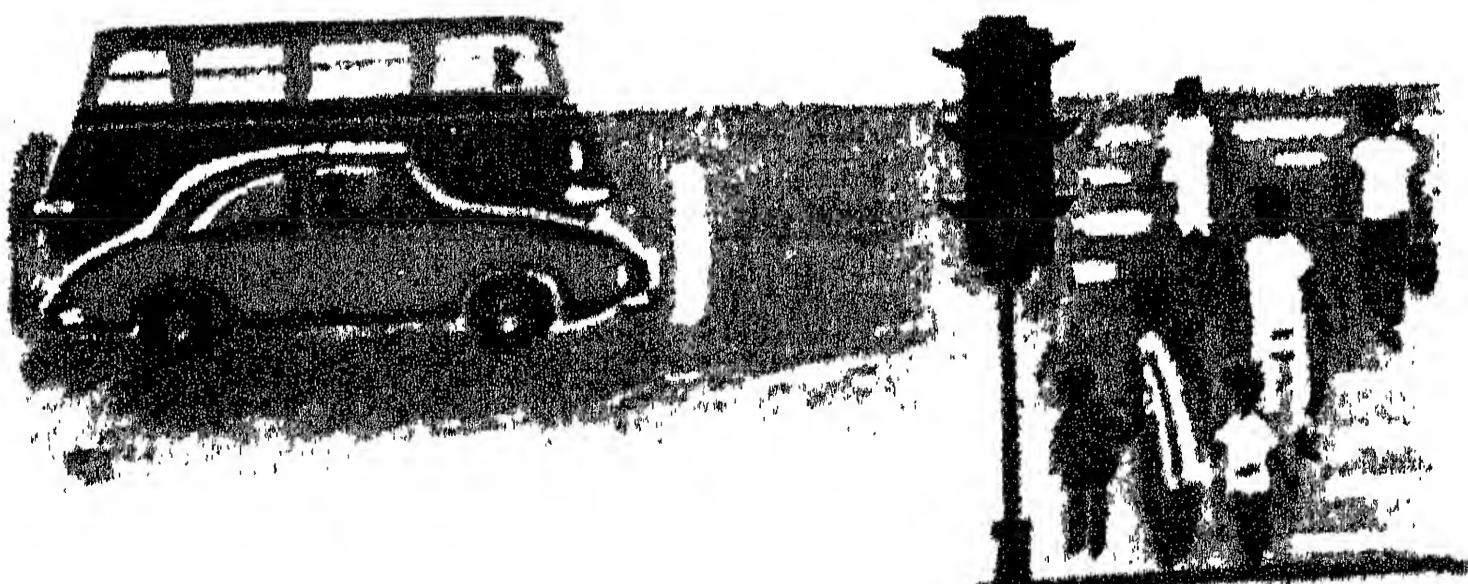
You see them always on your way:



Red - Stop!



Yellow - Wait!

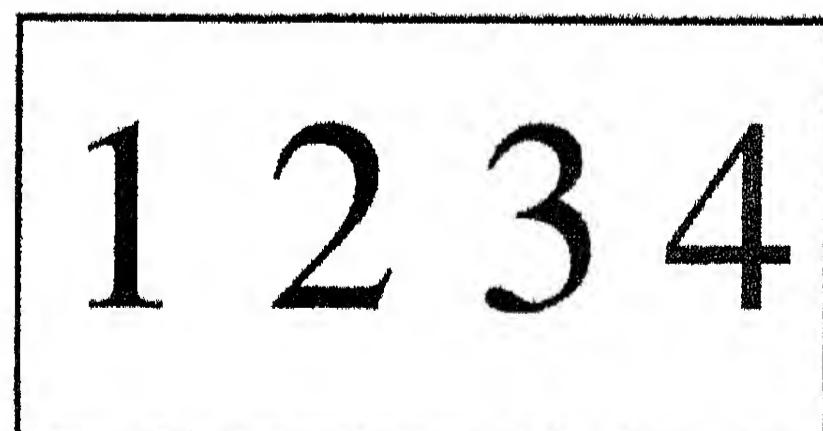
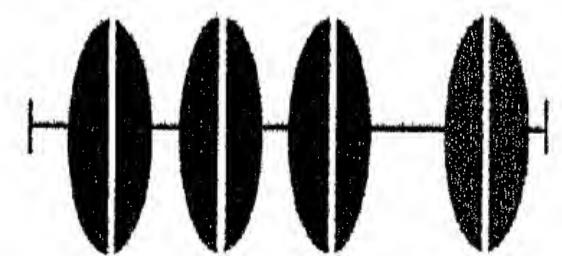
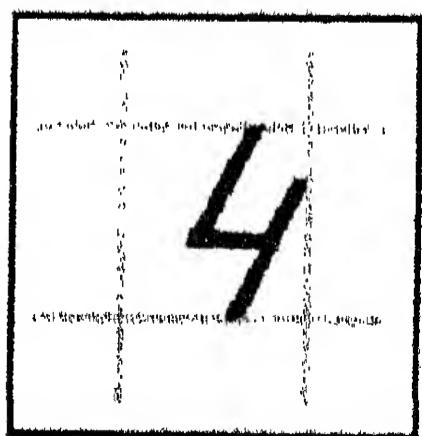
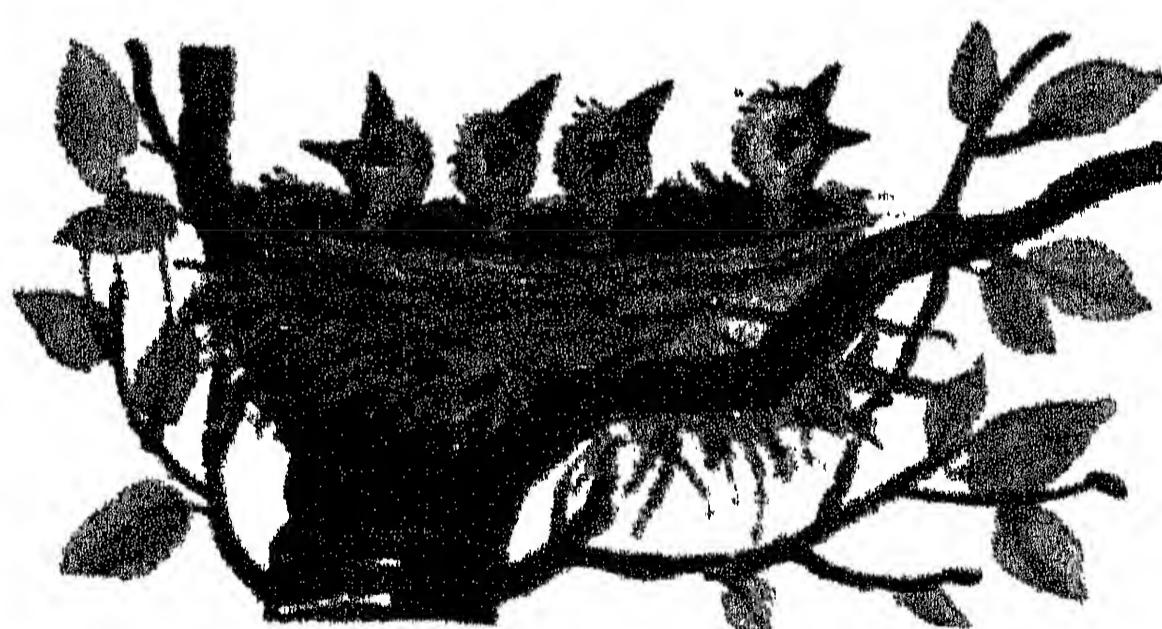
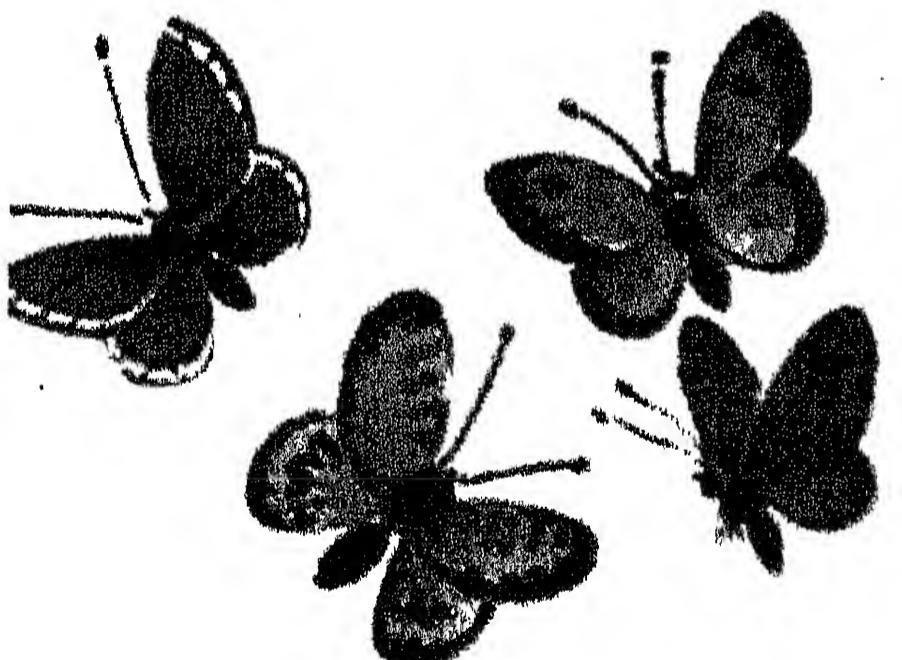
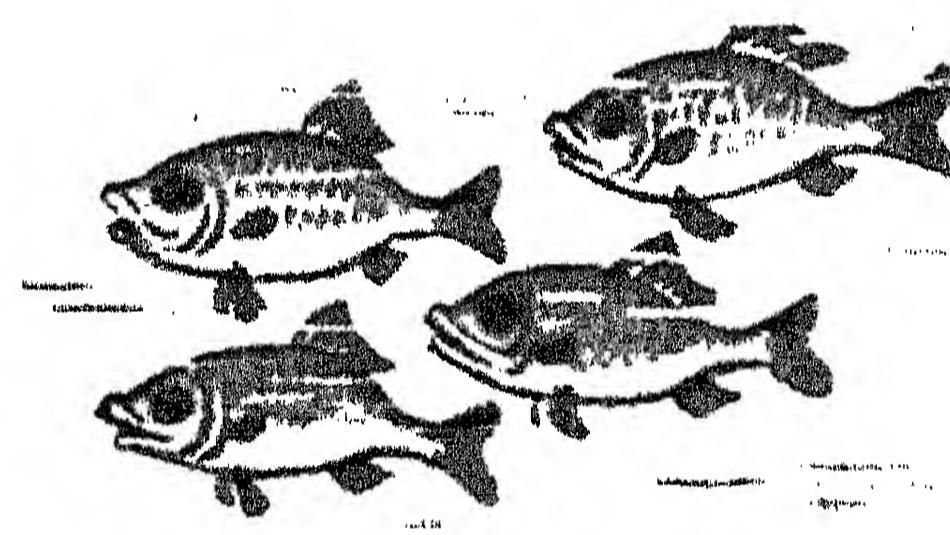
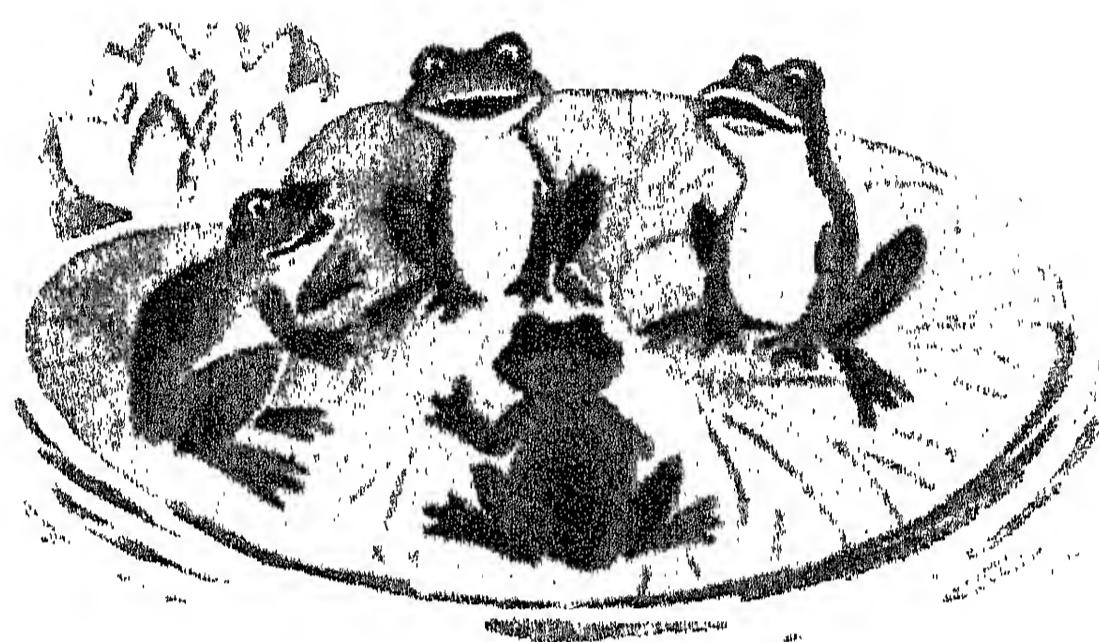
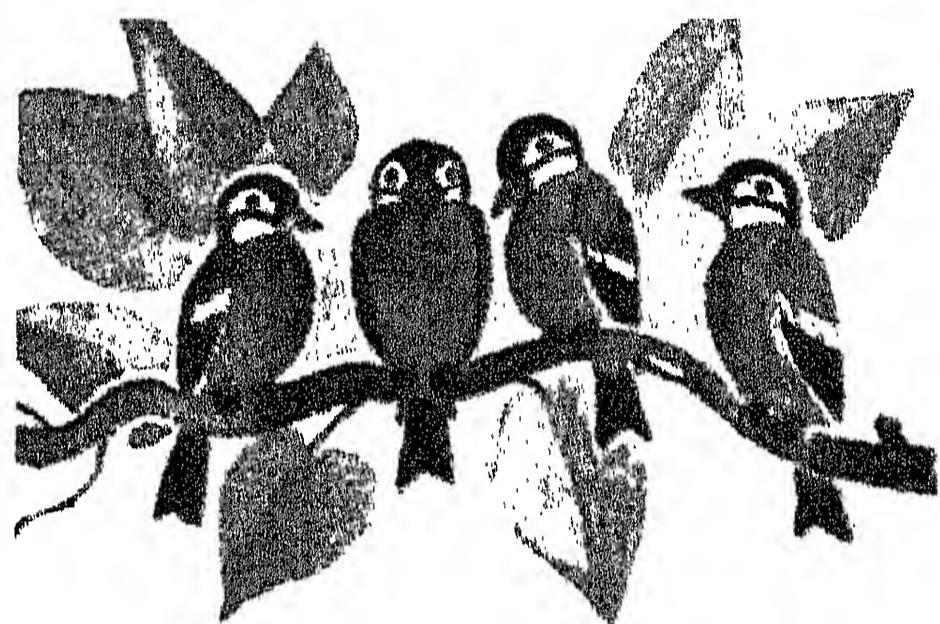
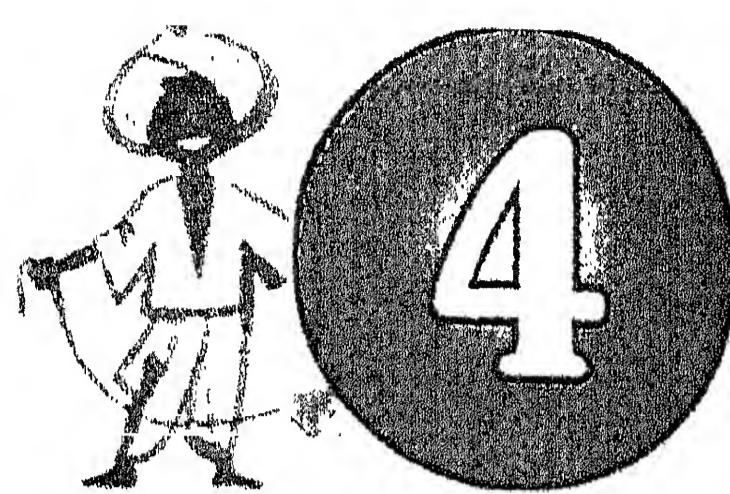


Green - Go!

(If it isn't  
too late.)

This is the number FOUR

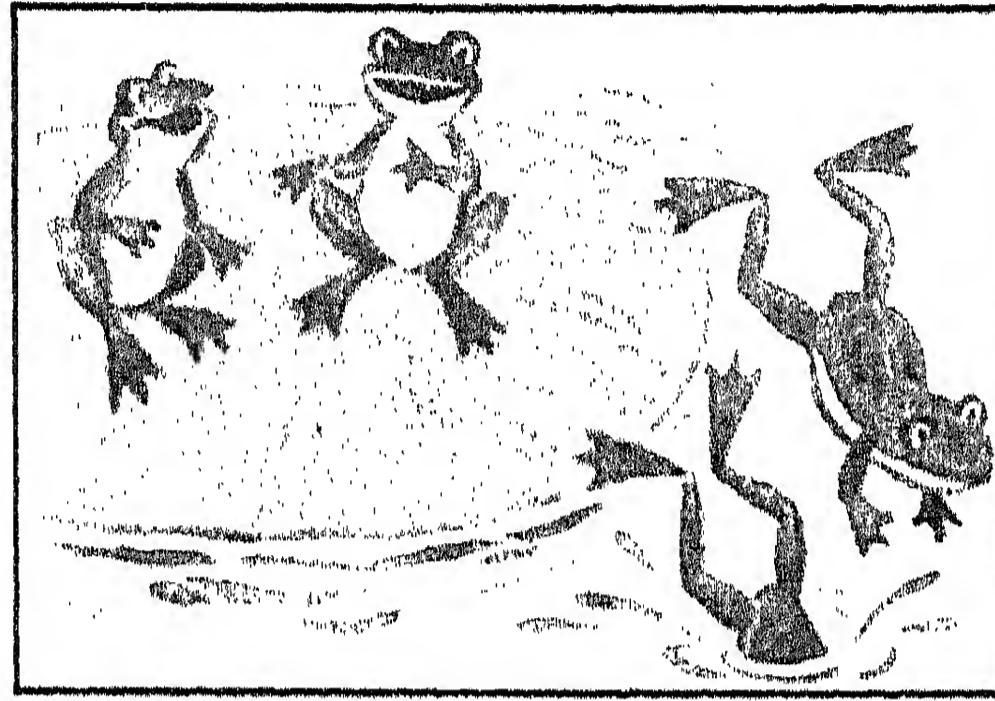
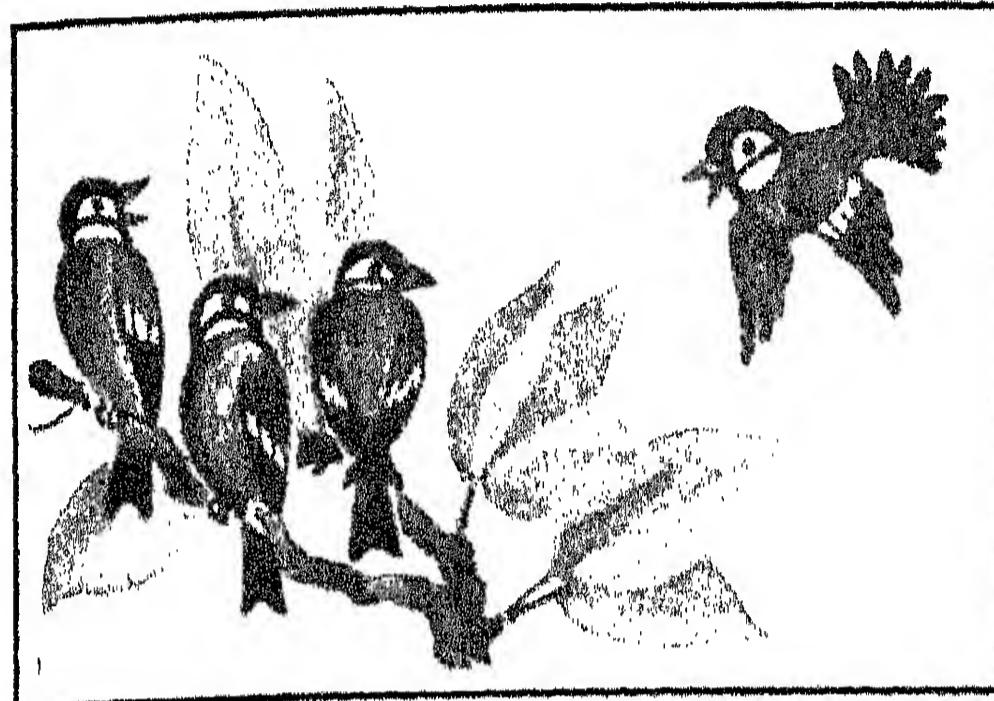
Figure Four's a haughty symbol,  
Standing with its arm akimbo.





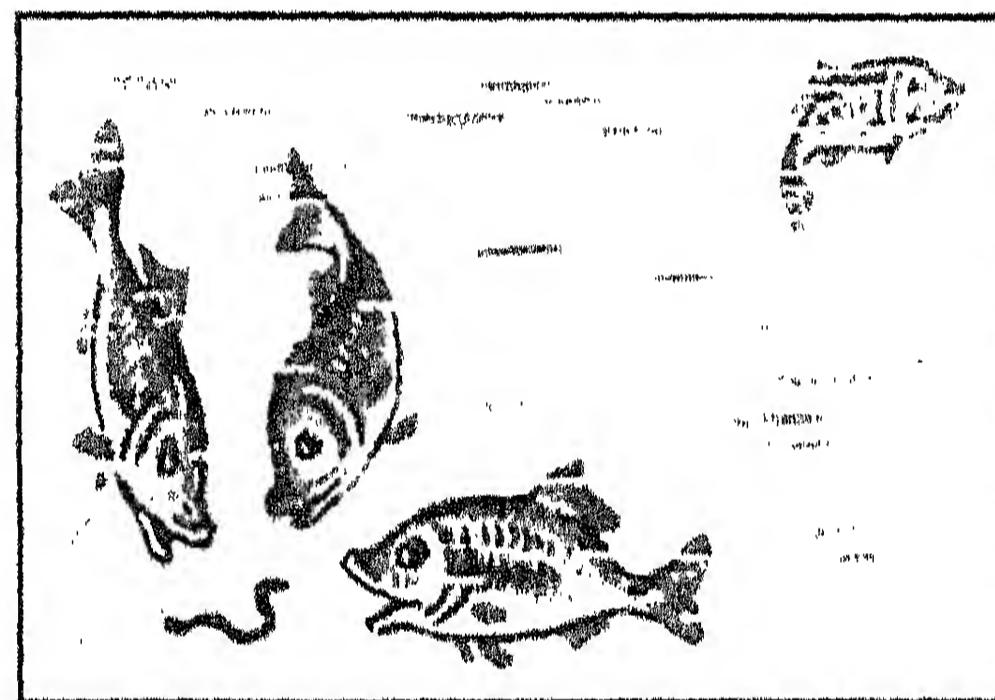
## READ AND ANSWER:

What number must be added to 3 to make 4 ?  
What number must be added to 2 to make 4 ?



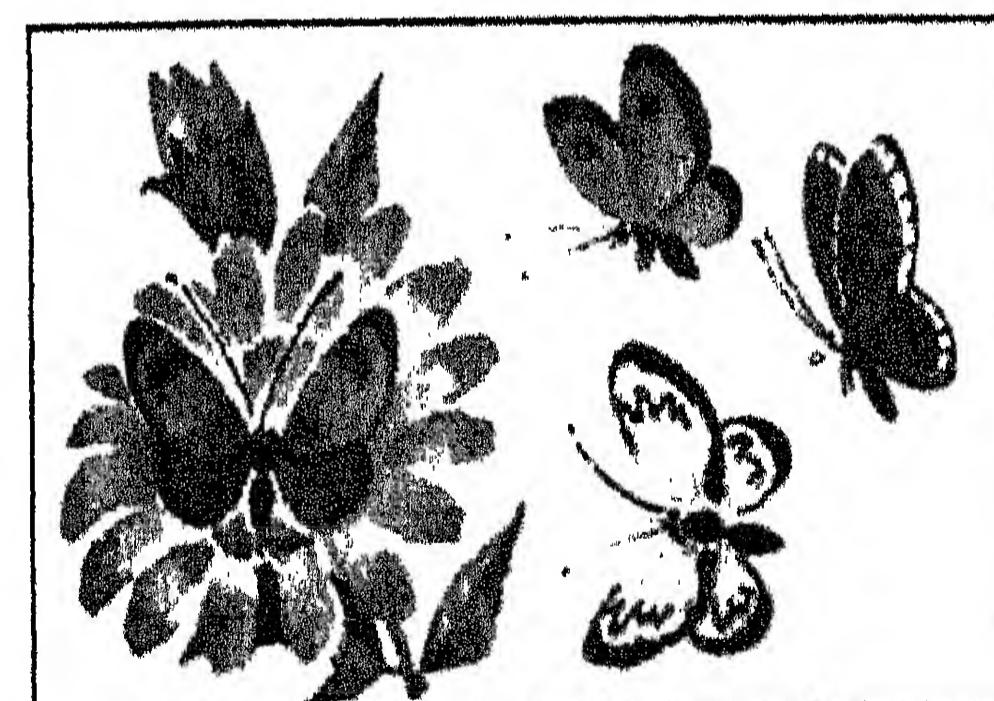
$$3 + \square = 4$$

$$\square - 2 = 2$$



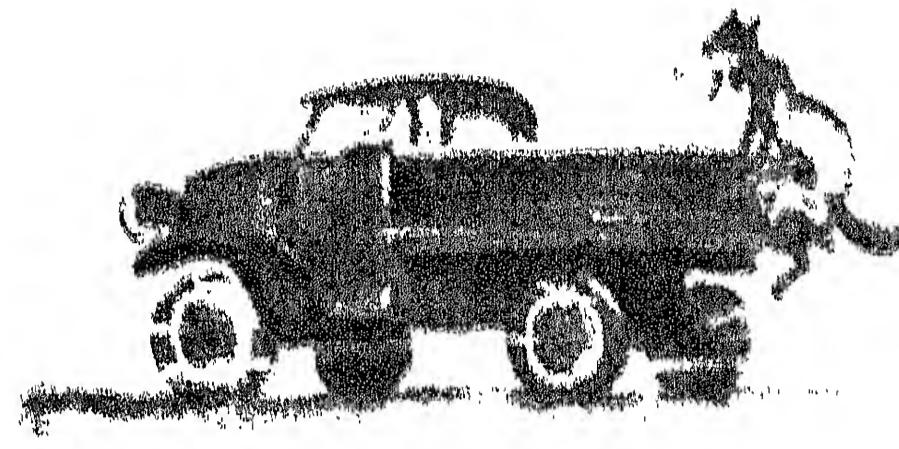
$$2 + \square = 4$$

$$4 - 1 = \square$$



$$1 + \square = 4$$

$$4 - \square = 1$$



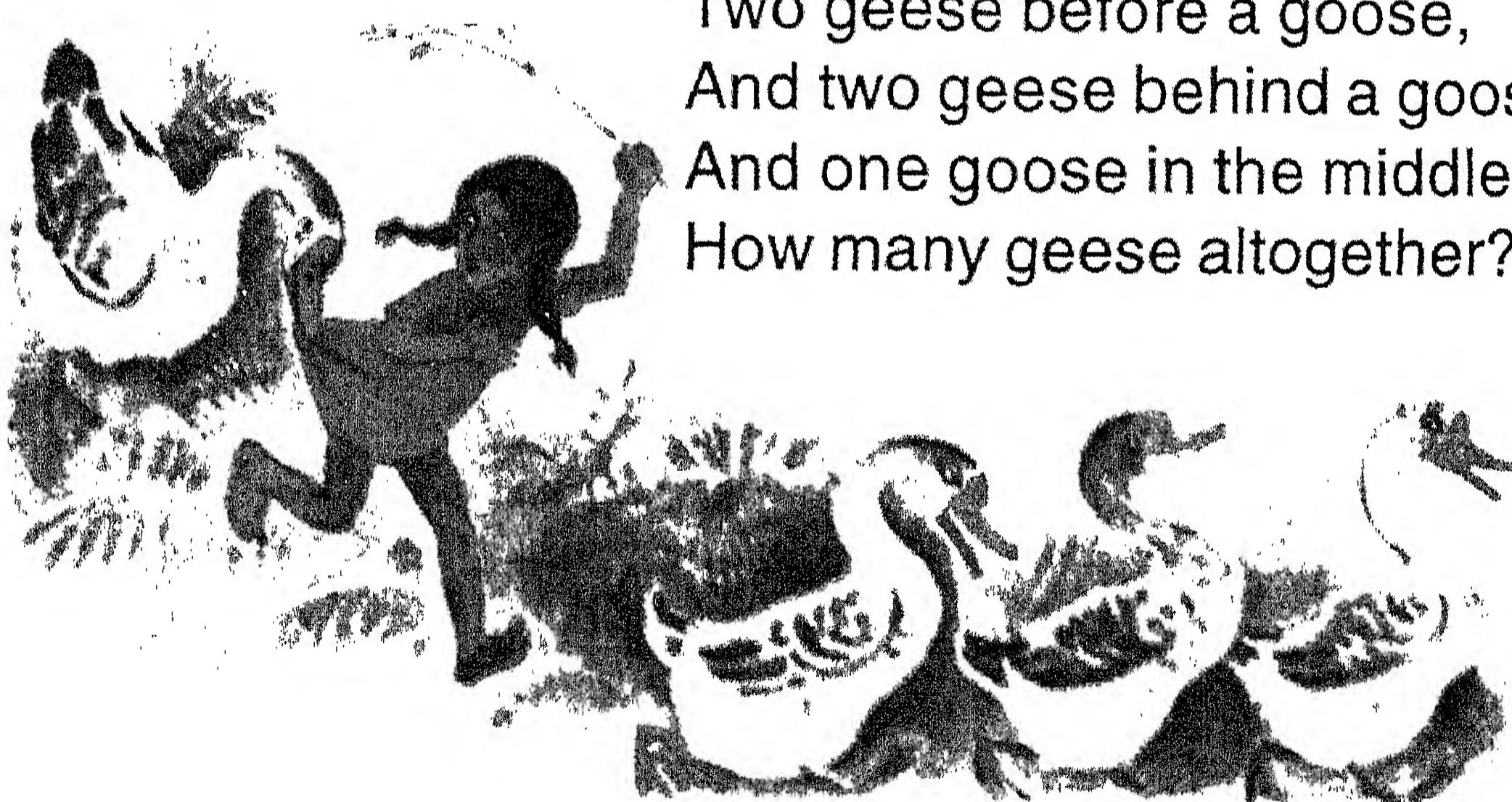
A room has four corners,  
Four legs has a Chair,  
Four legs has a fox,  
And a wolf, and a bear.

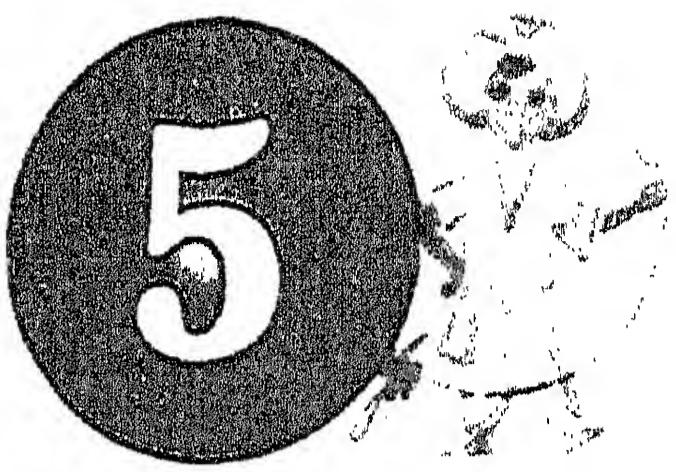
Four wheels of rubber  
Run as fast as ever.  
Can you overtake them?  
- Never!



### PUZZLE

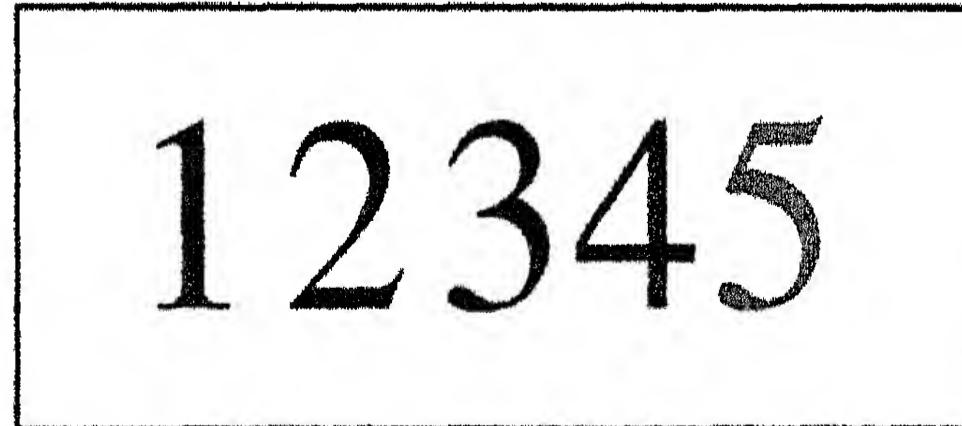
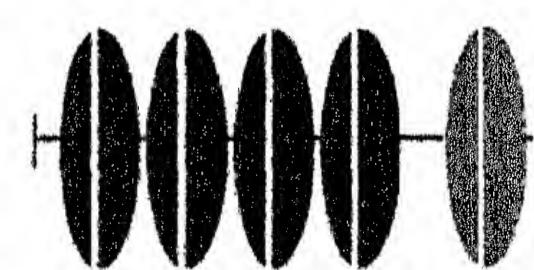
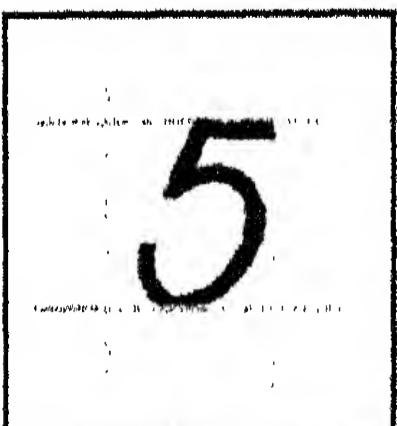
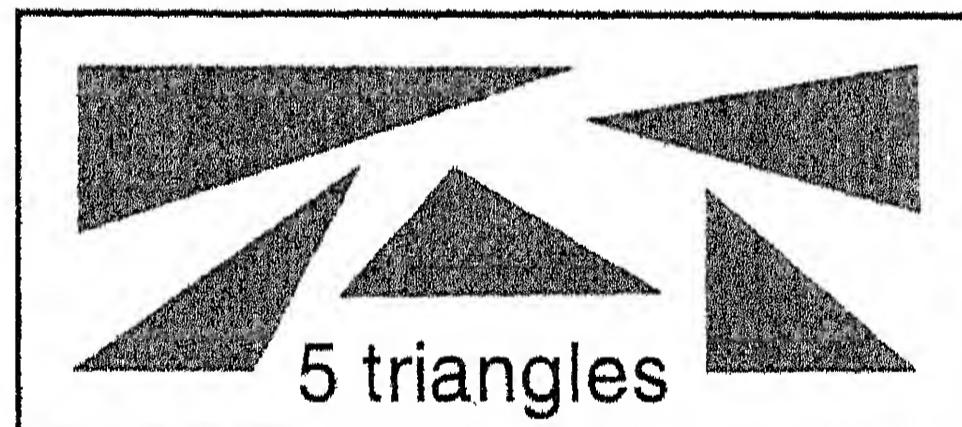
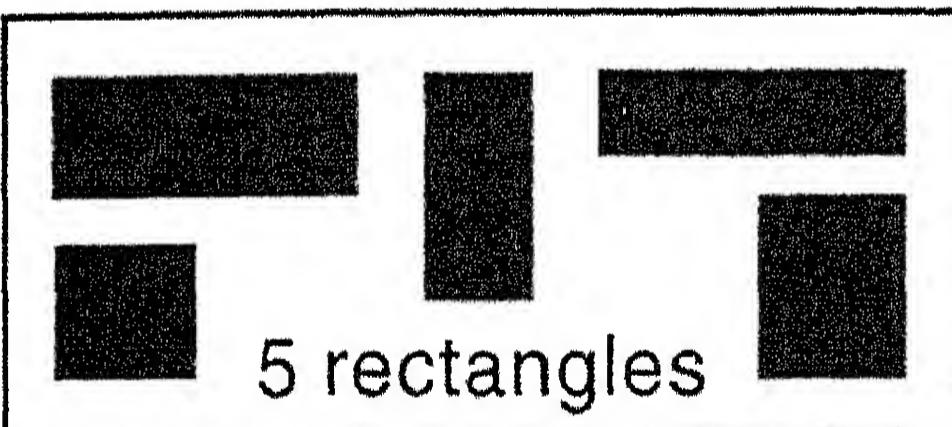
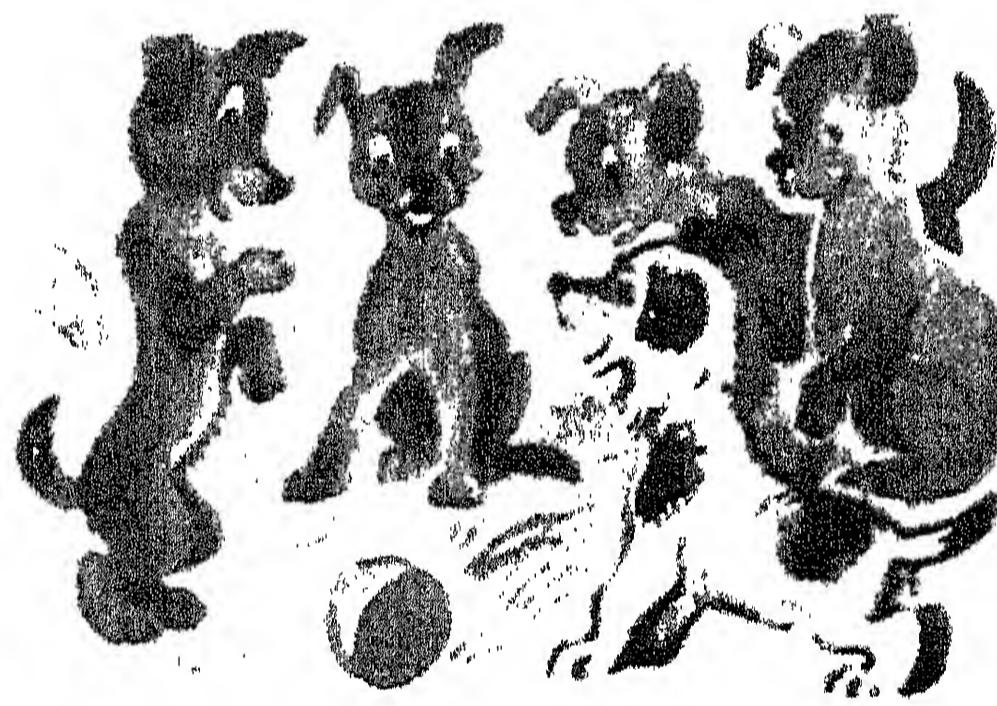
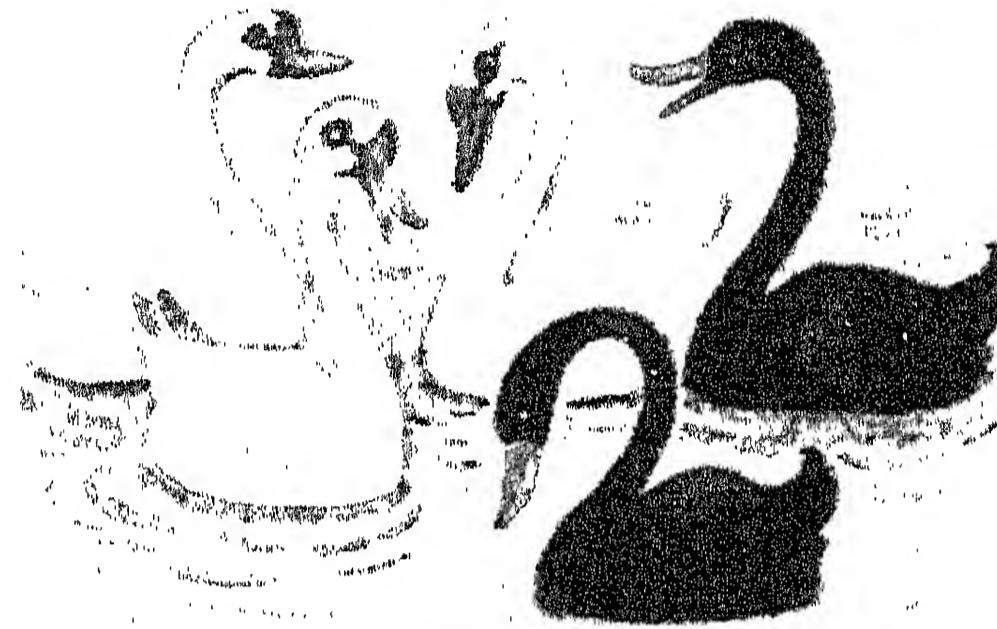
Two geese before a goose,  
And two geese behind a goose,  
And one goose in the middle.  
How many geese altogether?





This is the number FIVE

Figure Five appears on paper,  
It's about to cut a caper.

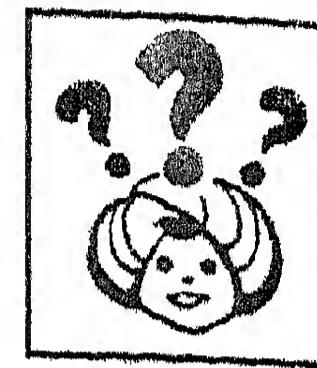


## ADD OR TAKE AWAY

How much is two plus three ?

How much is five minus two ?

How much is four plus one ?



$$4 + 1 = \square$$

$$5 - 2 = \square$$



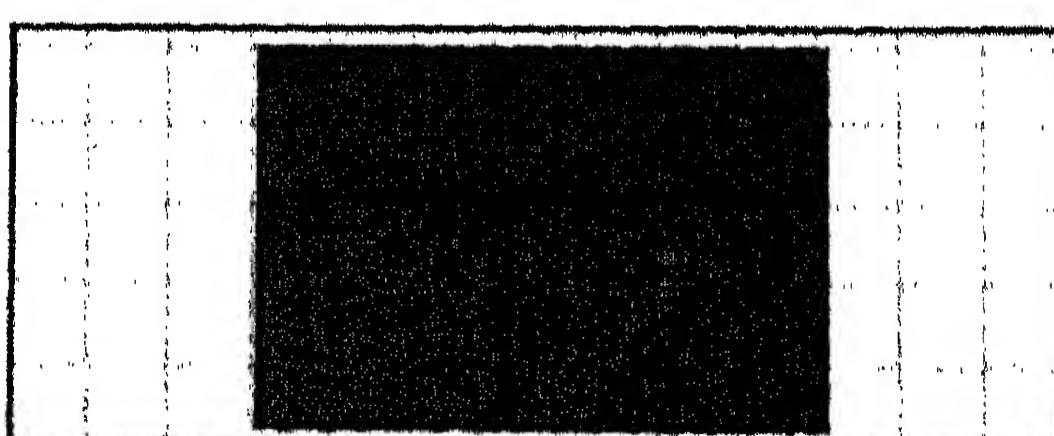
$$2 + \square = 5$$

$$5 - \square = 4$$



Point

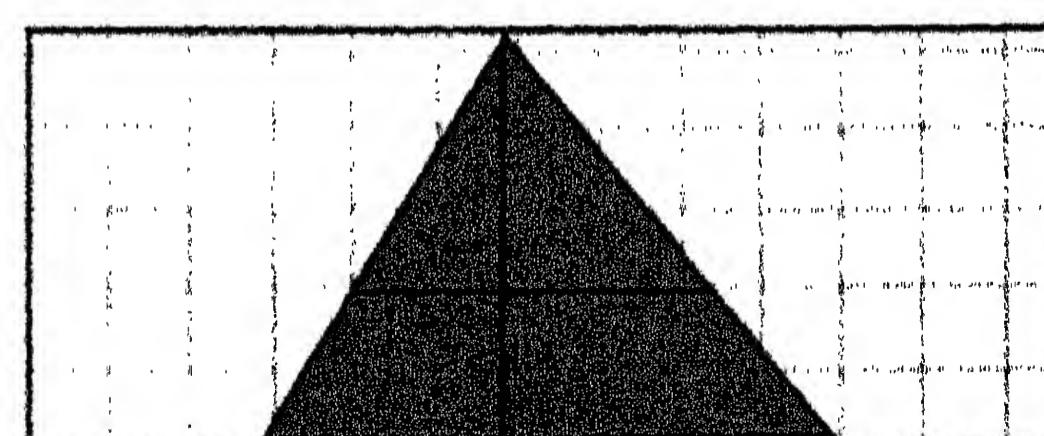
5 rectangles :



Point

3 triangles :

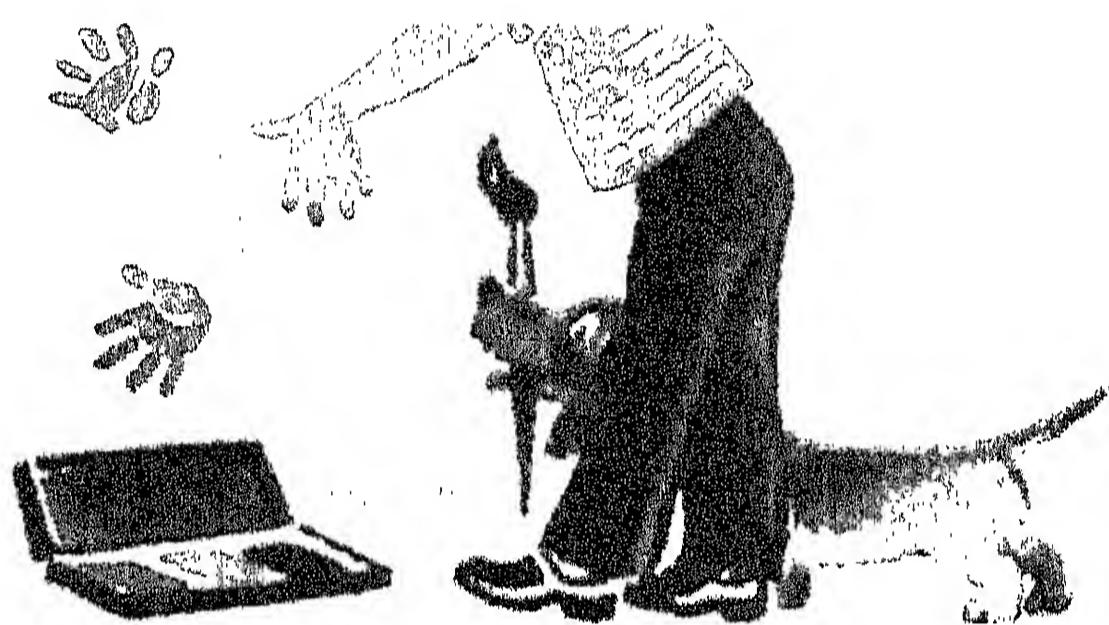
and 3 quadrangles :





## HOW MANY FINGERS ?

How many fingers do I have?  
Five on my right hand, five on  
my left hand.  
How many fingers do I have?



## FIVE LITTLE HAPPY DOGS

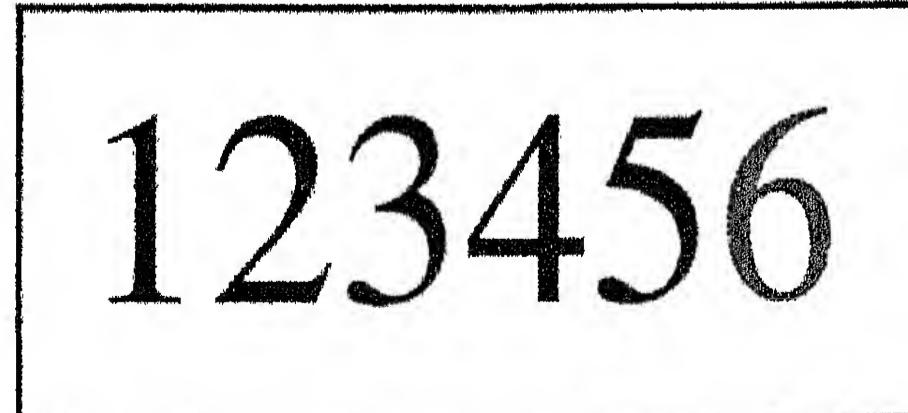
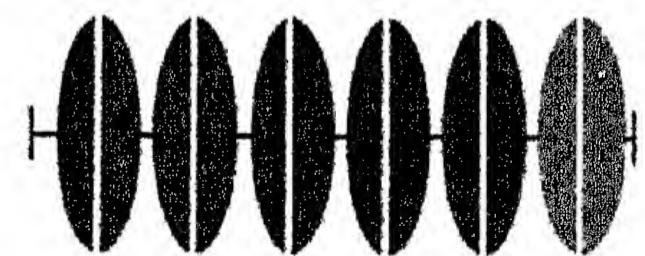
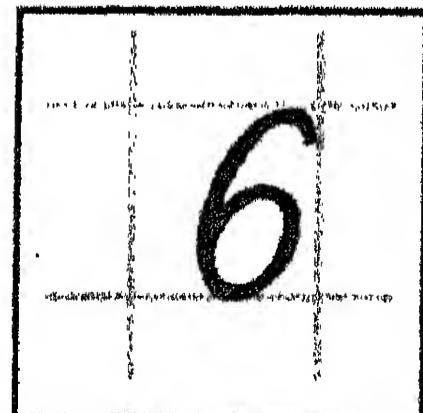
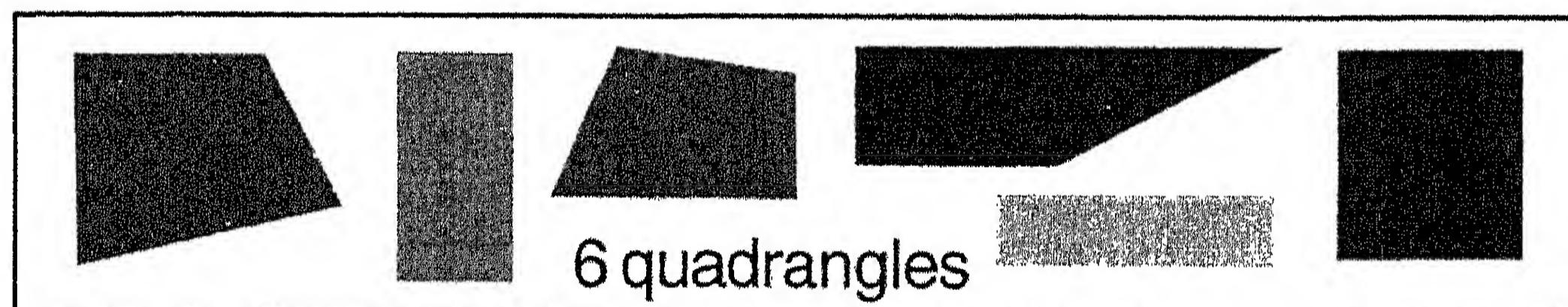
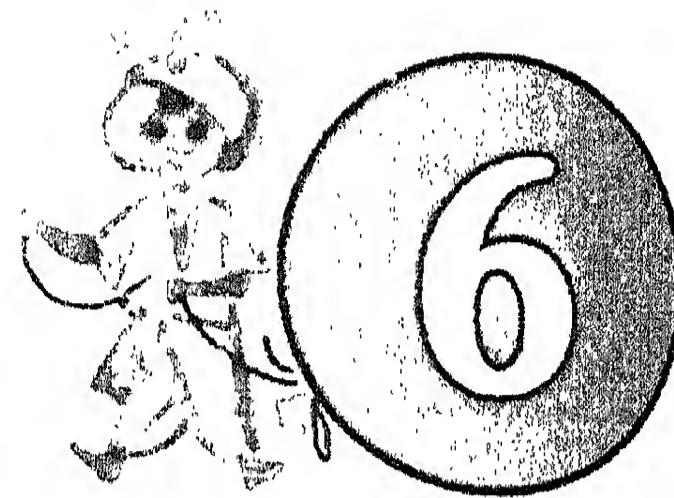
Five little happy dogs  
sitting by the door,  
One ran away,  
and then there were four.

Little dog, little dog,  
happy and gay,  
Little dog, little dog,  
run away.



This is the number SIX

Figure Six looks nice and pretty,  
You may call it figure fatty.





## ADD OR TAKE AWAY.

How much is four plus two?

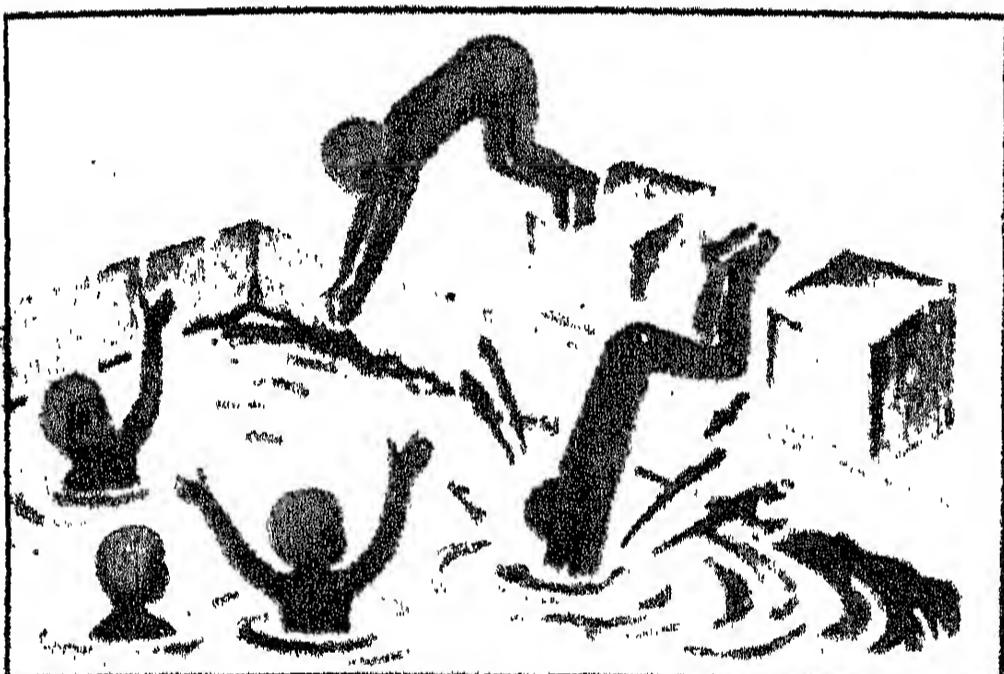
How much is one plus four?

How much is five minus three?



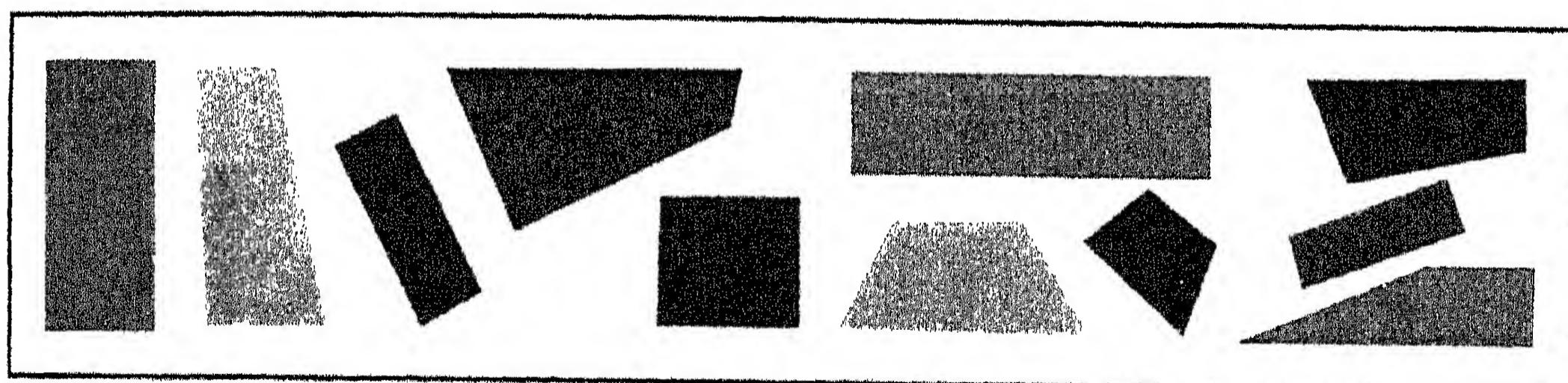
$$4 + \square = 5$$

$$6 - 1 = \square$$



$$\square + 2 = 5$$

$$\square - 2 = 4$$

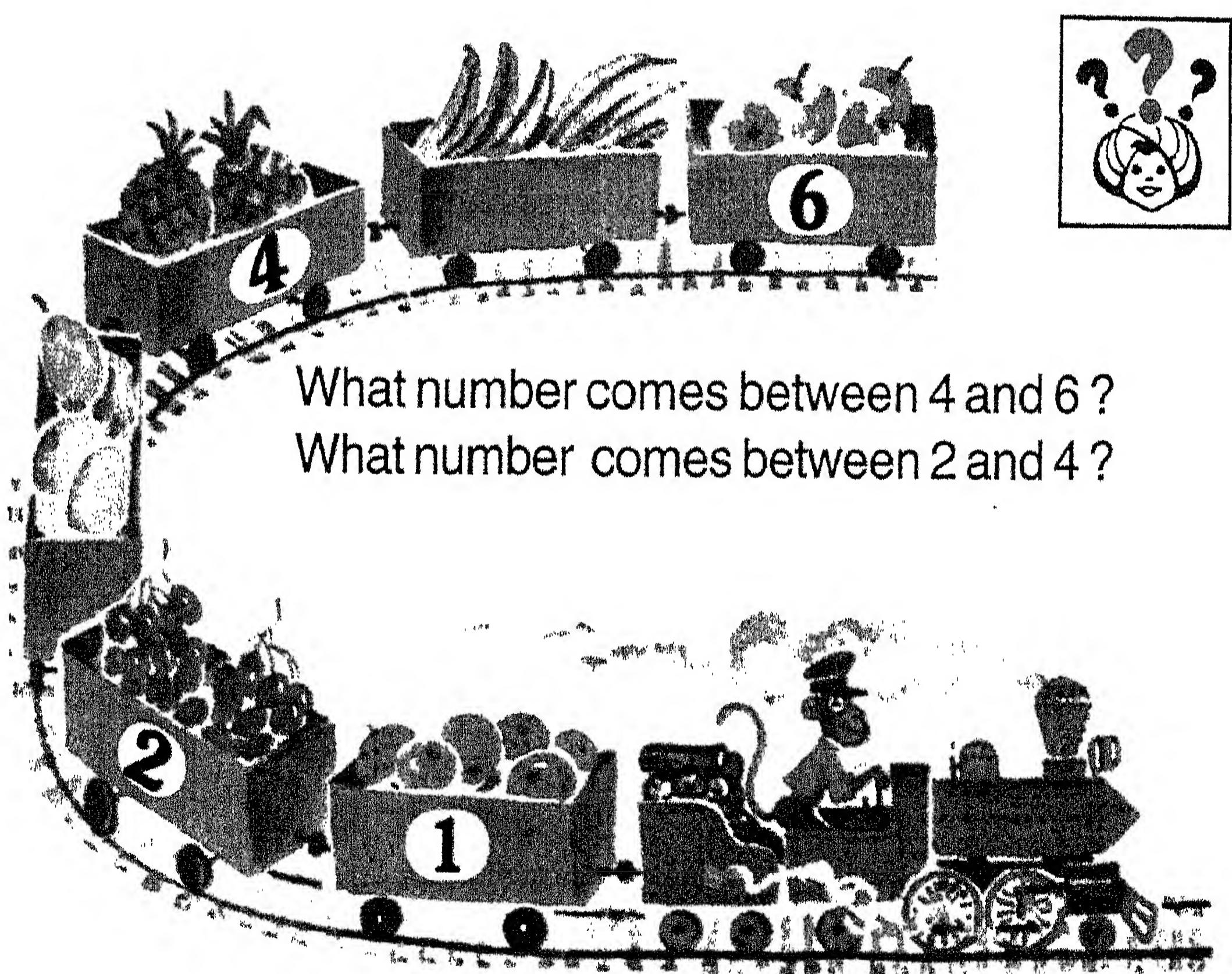


Count  
rectangles :

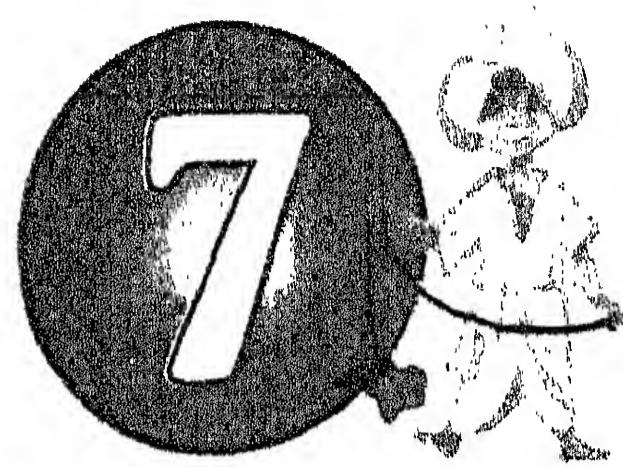
quadrilaterals :

Ans : 5 rectangles, 6 quadrilaterals

Milk for kittens is a treat  
(If six kittens want to eat).  
Kittens never use a spoon,  
But their bowl is empty soon.

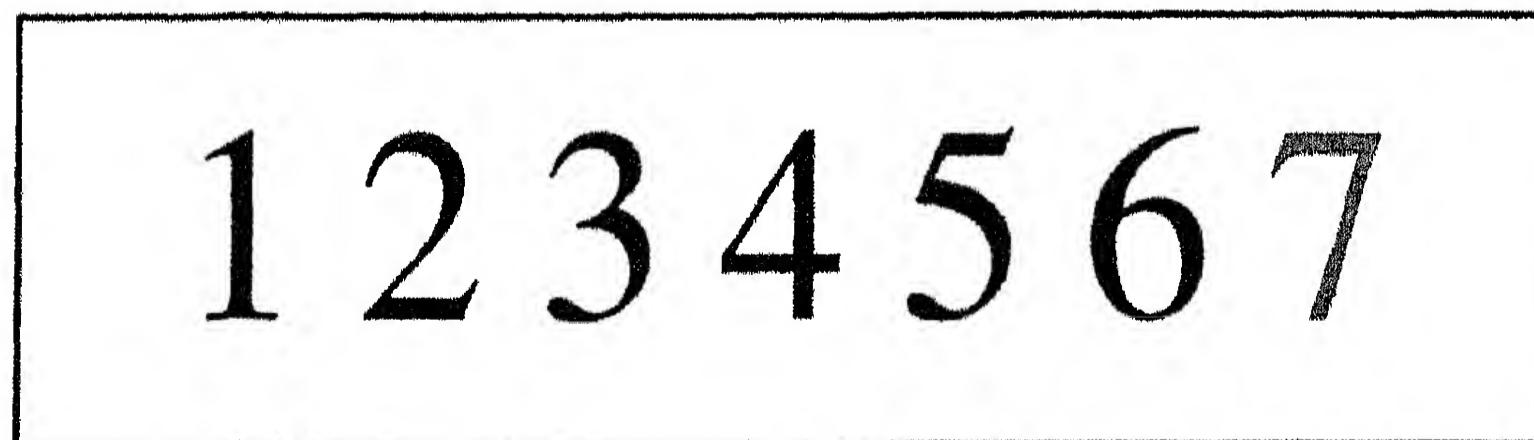
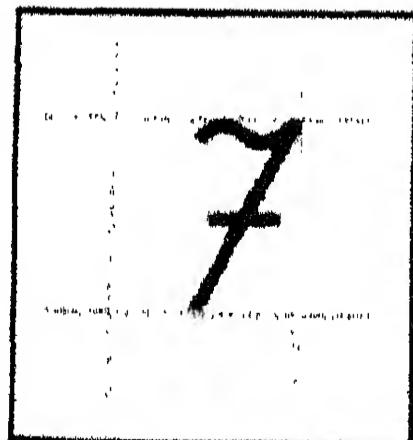


What number comes between 4 and 6 ?  
What number comes between 2 and 4 ?



This is the number **SEVEN**

Every week has seven days: day after day  
For you to learn and play.

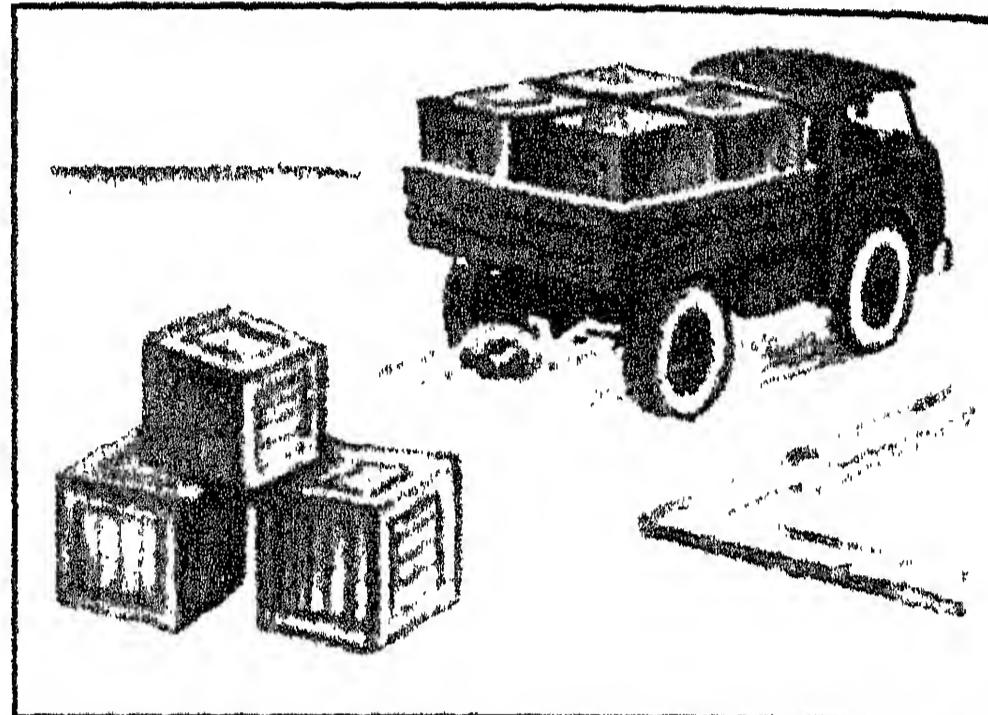
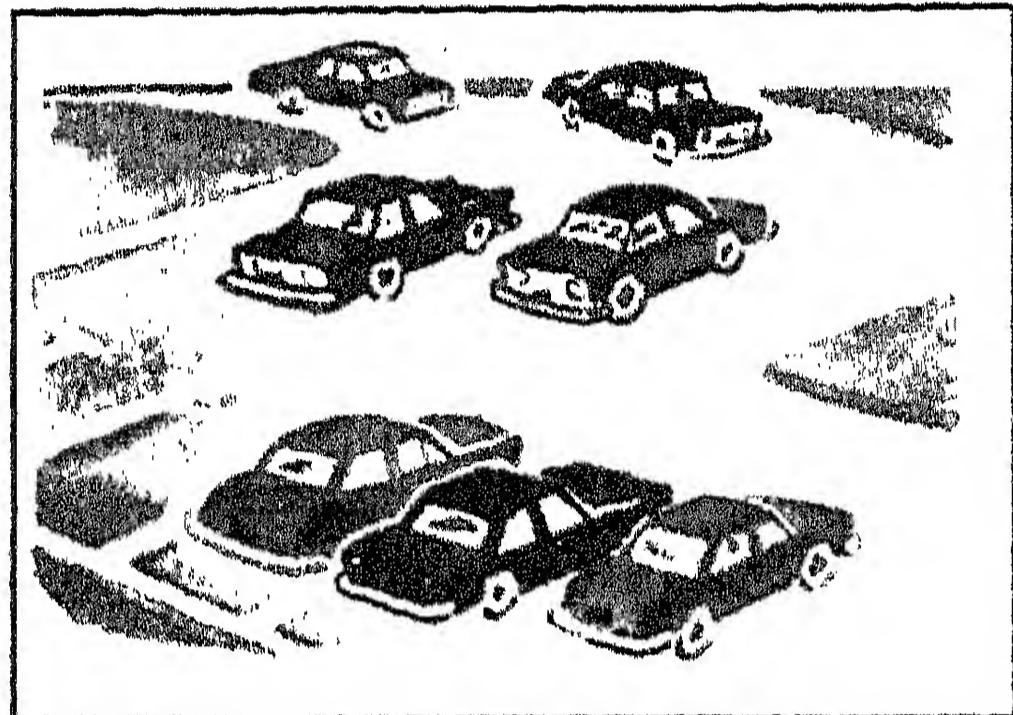


## ADD OR TAKE AWAY.

How much is three plus four ?

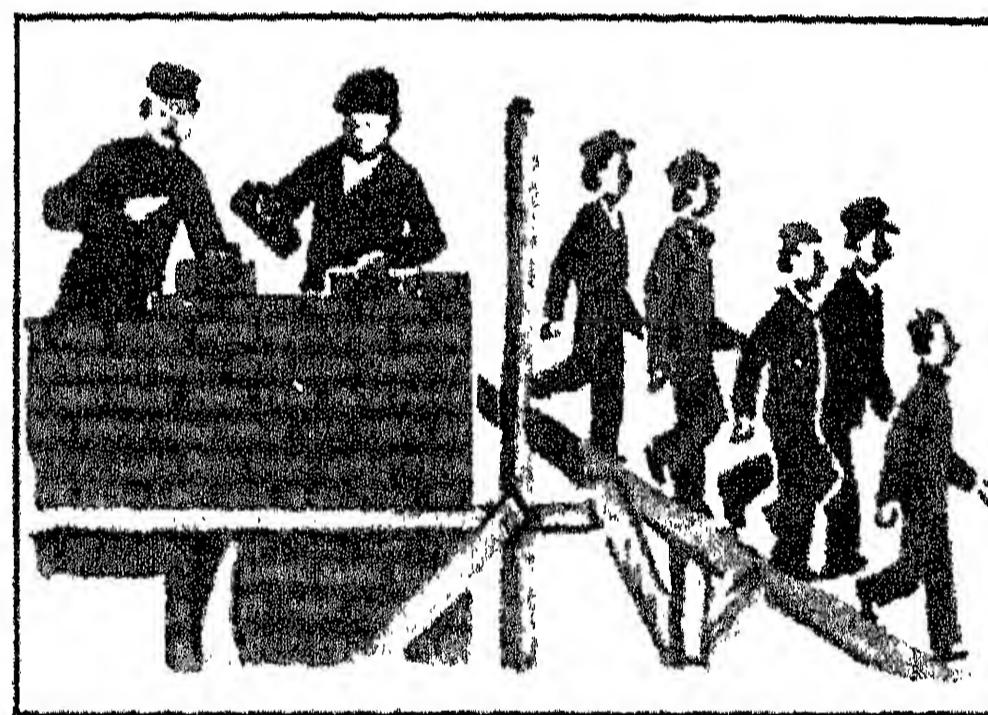
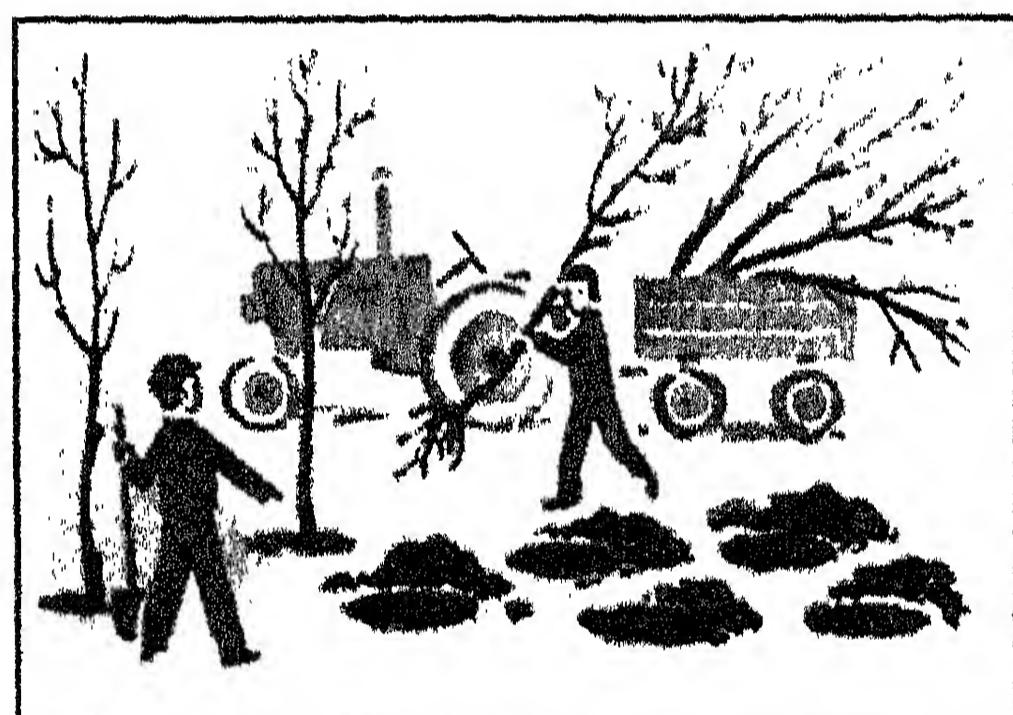
How much is one plus six ?

How much is seven minus five ?



$$3 + \square = 7$$

$$7 - \square = 3$$



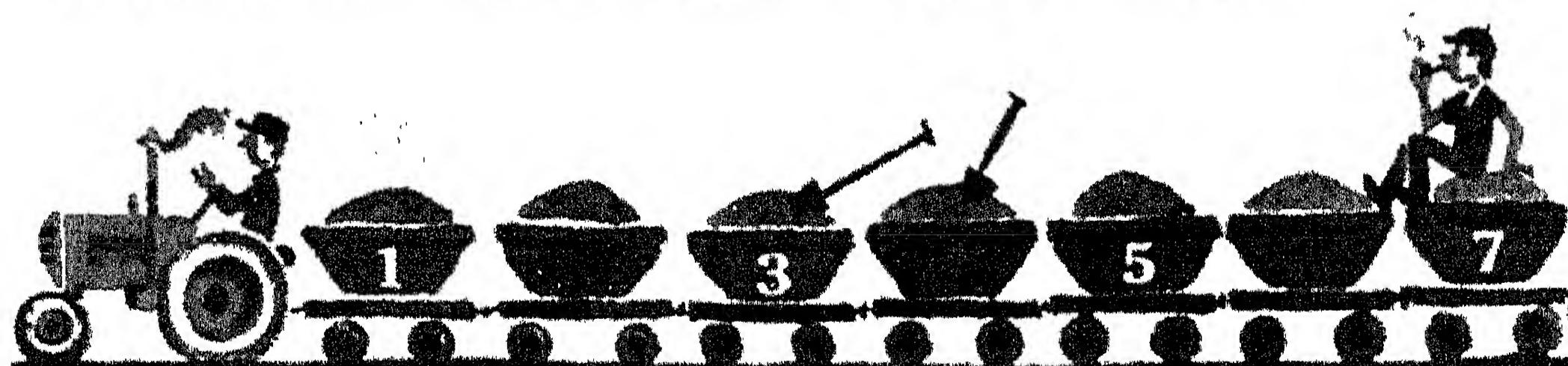
$$2 + 5 = \square$$

$$\square - 5 = 2$$

What number should be just after 3?

What number comes between 5 and 7?

What number comes between 1 and 3? 3 and 5?

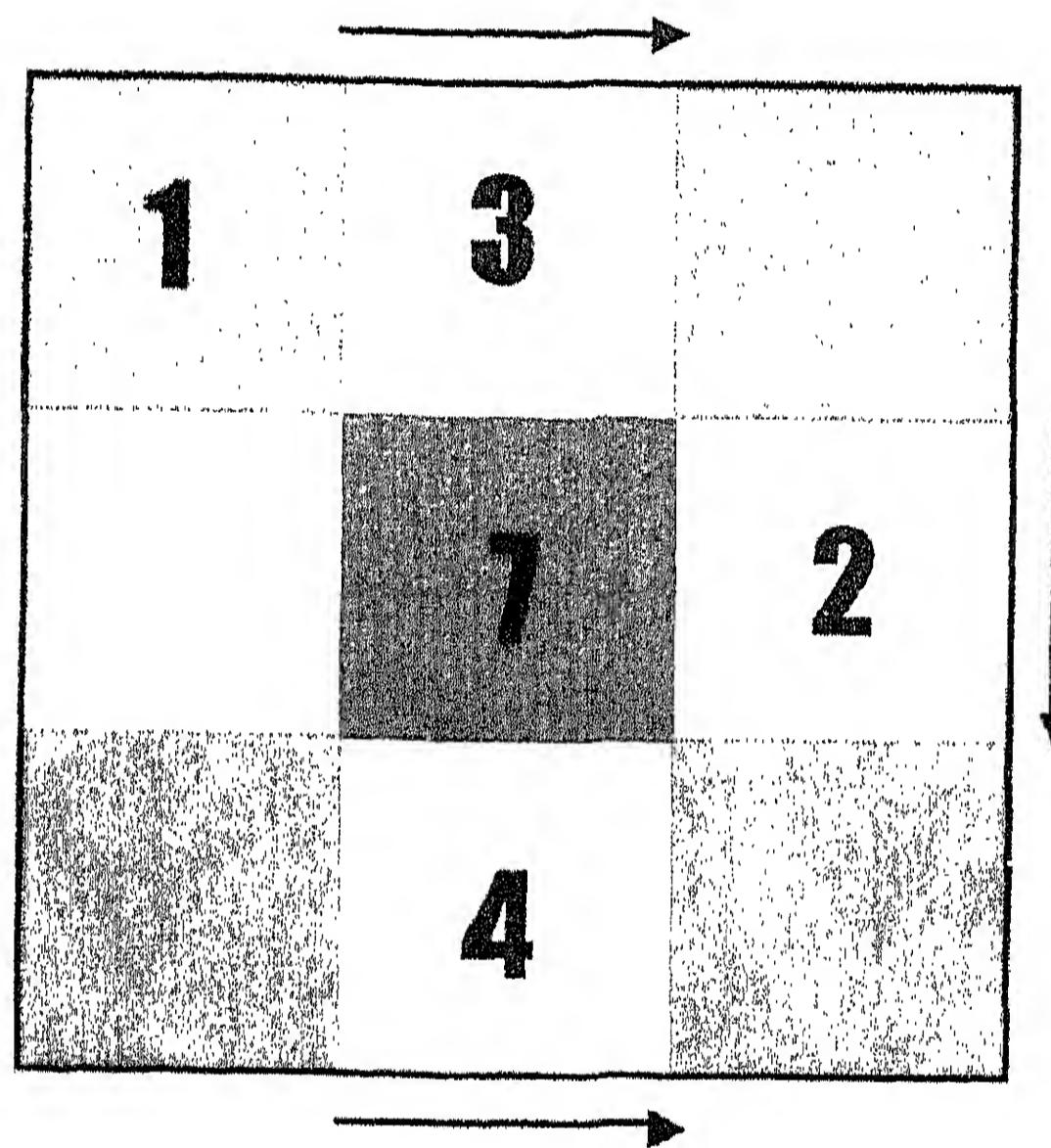
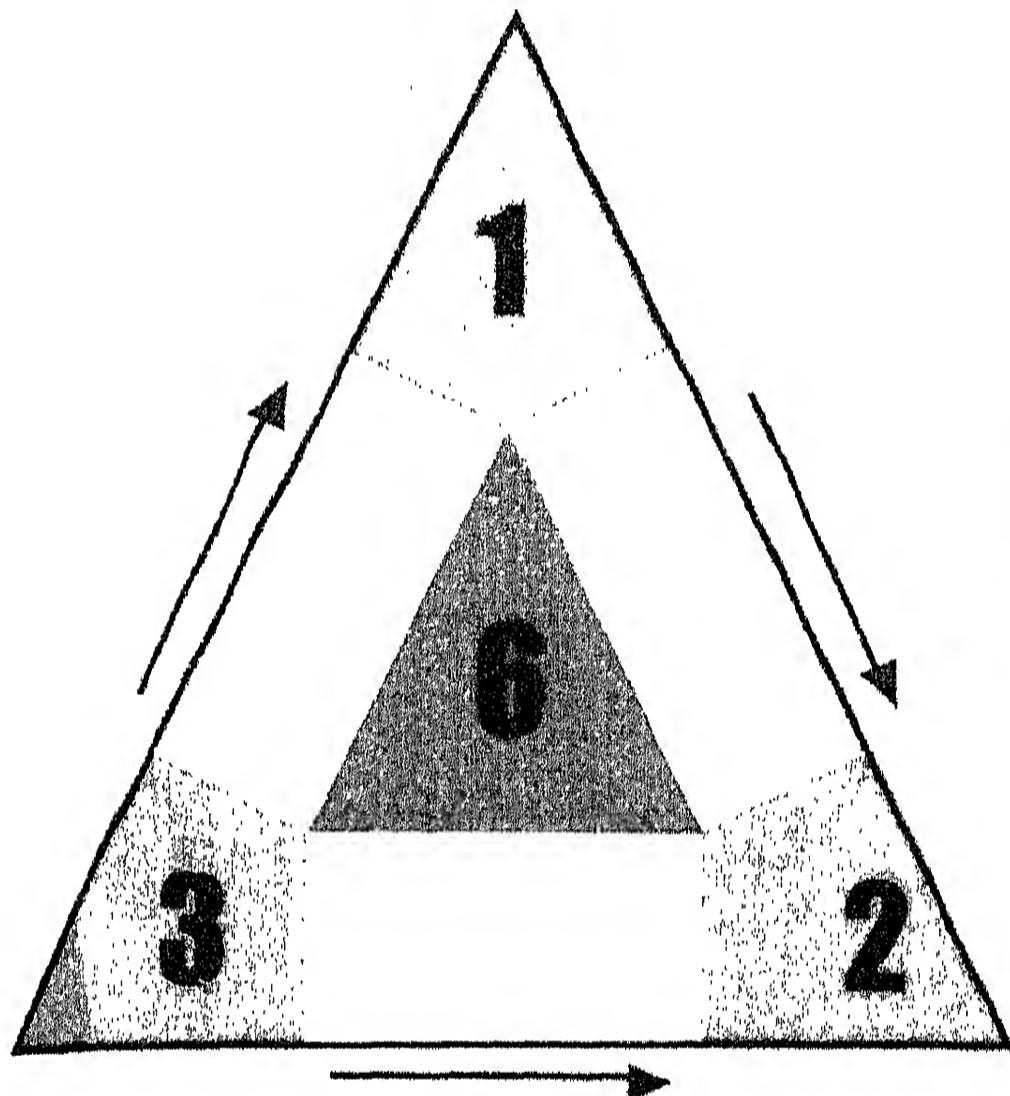




## Fill in the missing numbers :



in a magic  
triangle :



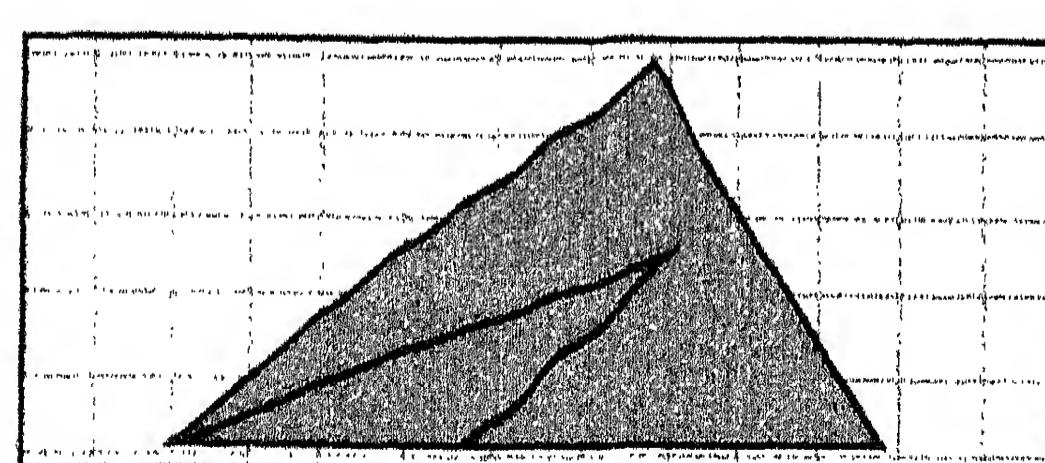
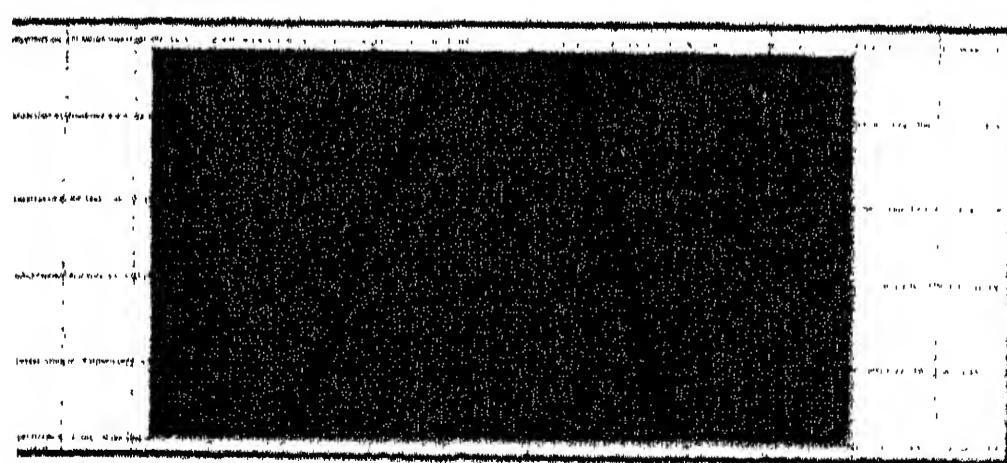
- in a magic  
square :



Point  
6 quadrangles :

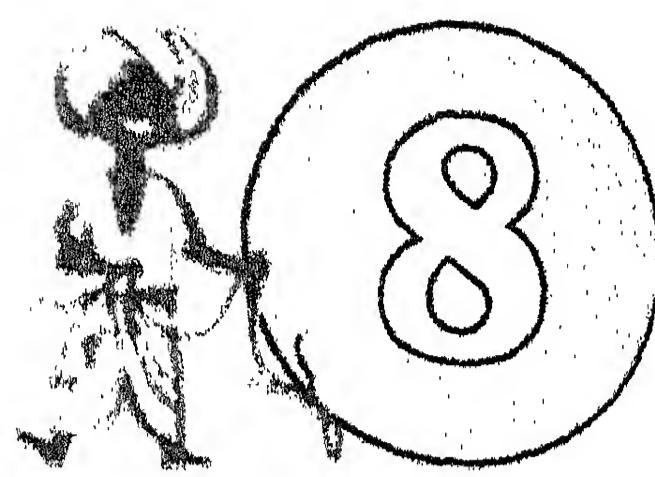


Point  
5 triangles :



This is the number EIGHT

Figure Eight is bend after bend,  
It has no beginning, and has no end.



8

1 2 3 4 5 6 7 8



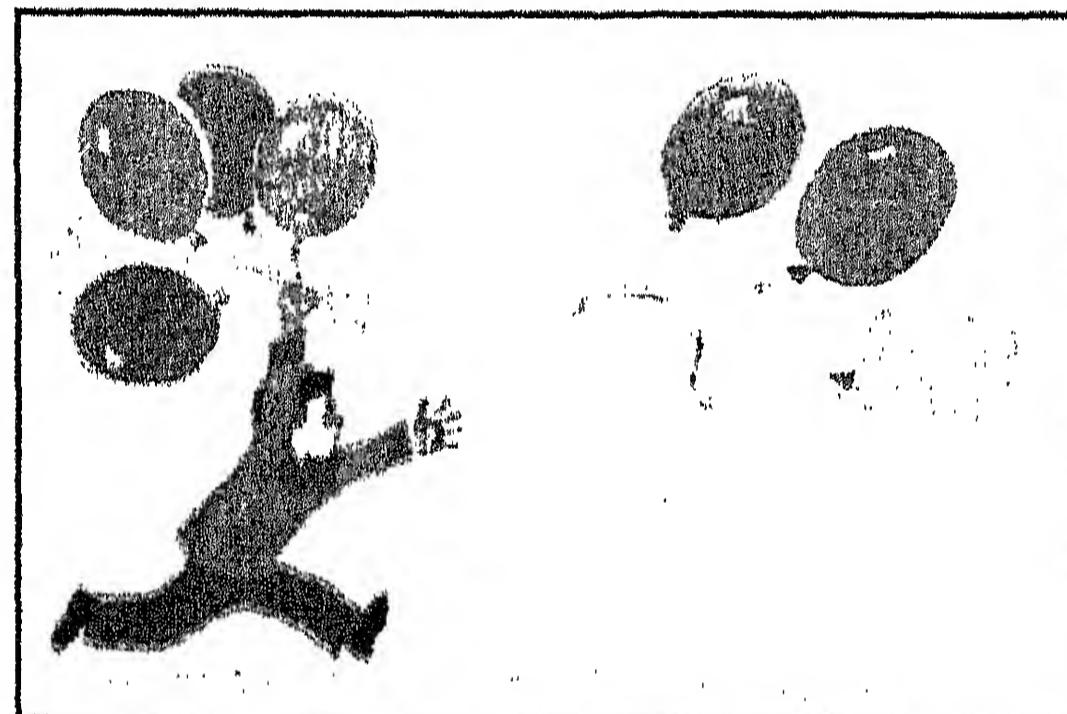
The division sign ( $\div$ ) means share :  $6 \div 2 = 3$ .  
Six divided by two is three.

Eight divided by two is four.



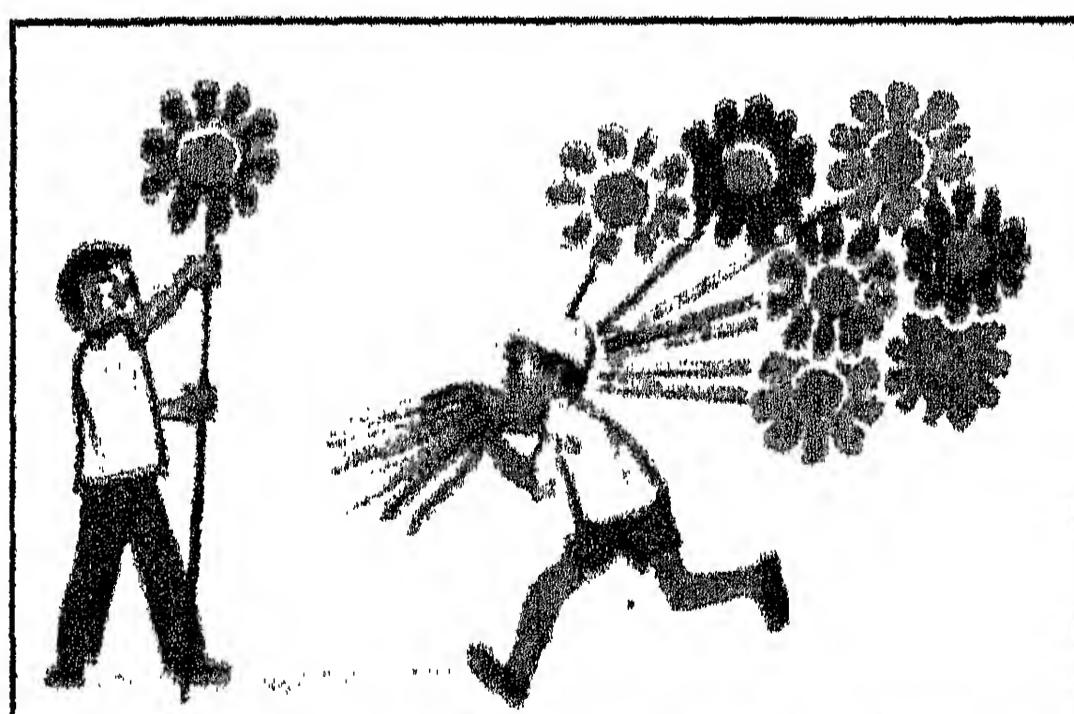
$$8 \div 2 = 4$$

ADD OR TAKE AWAY :



$$5 + \square = 8$$

$$\square - 3 = 5$$



$$1 + 7 = \square$$

$$8 - \square = 2$$

## READ AND ANSWER :

What number added

to 4 makes 8?

How much is four

divided by two?

to 3 makes 8?

How much is six

to 5 makes 8?

divided by three?

How much is 8 minus 6?

How much is 2 plus 5?

My FIRST is in the forest  
but not in wood.



My SECOND is in naughty  
but not in good.

My THIRD is in slipper  
but not in shoe.

My FOURTH is in certain  
but not in true.

My FIFTH is in uncle  
but not in aunt.

My SIXTH is in flower  
but not in plant.

My SEVENTH is in apple  
but not in pie.

My EIGHTH is in flutter  
but not in fly.

My WHOLE can be used  
with profit, I'm sure.

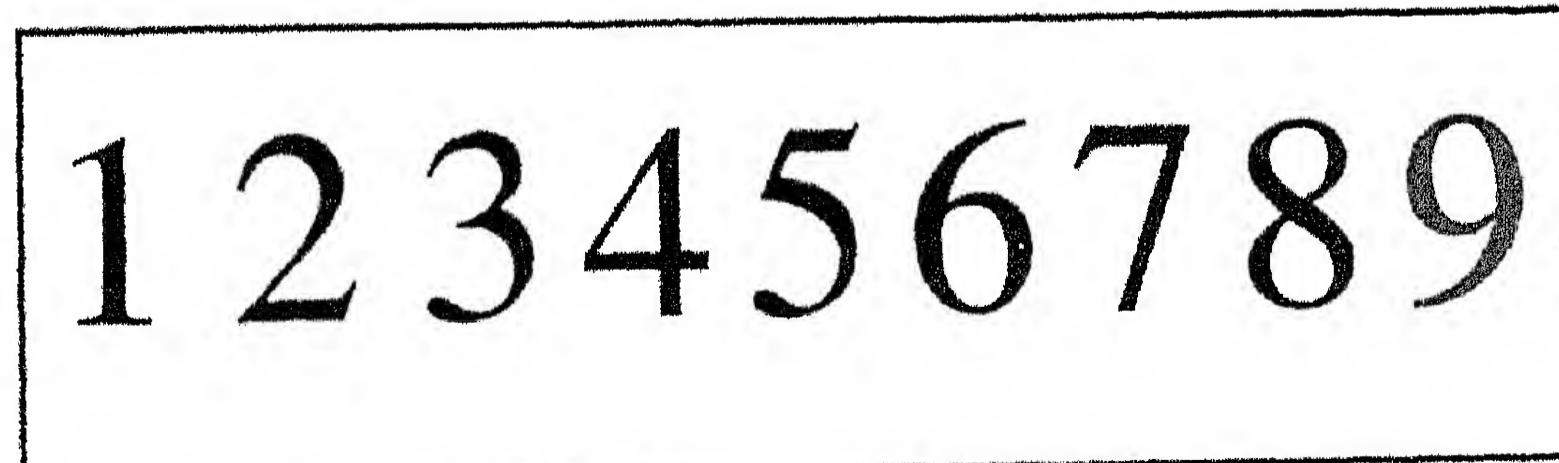
At times when you happen  
to be out-of-doors.





This is the number NINE

Figure Nine is good at tricks-  
Upside-down-it's figure Six.

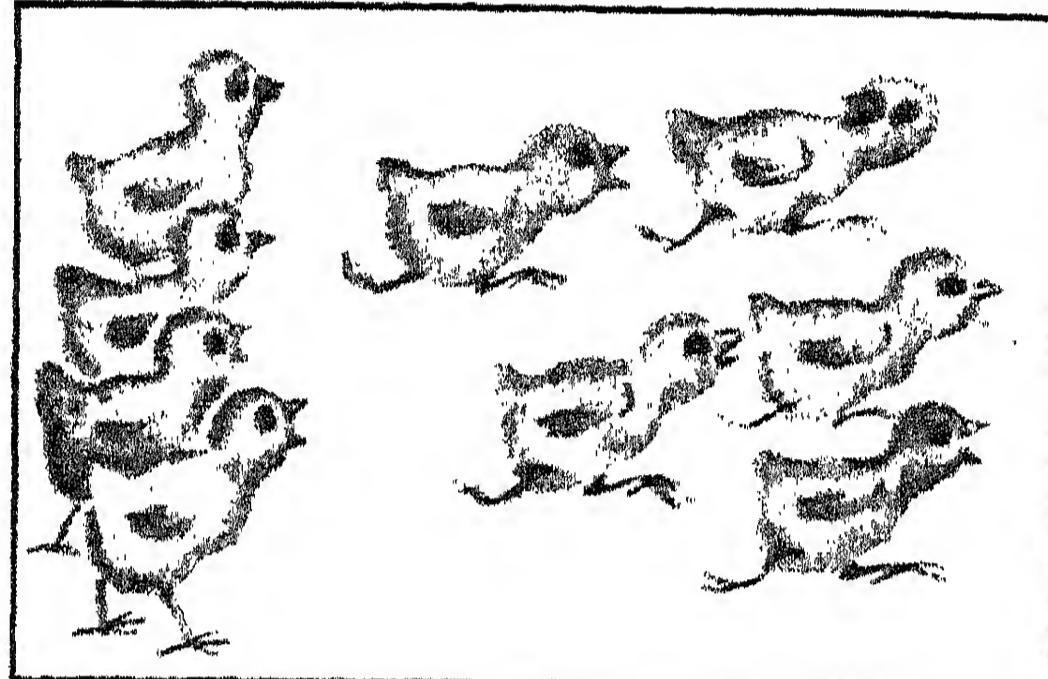
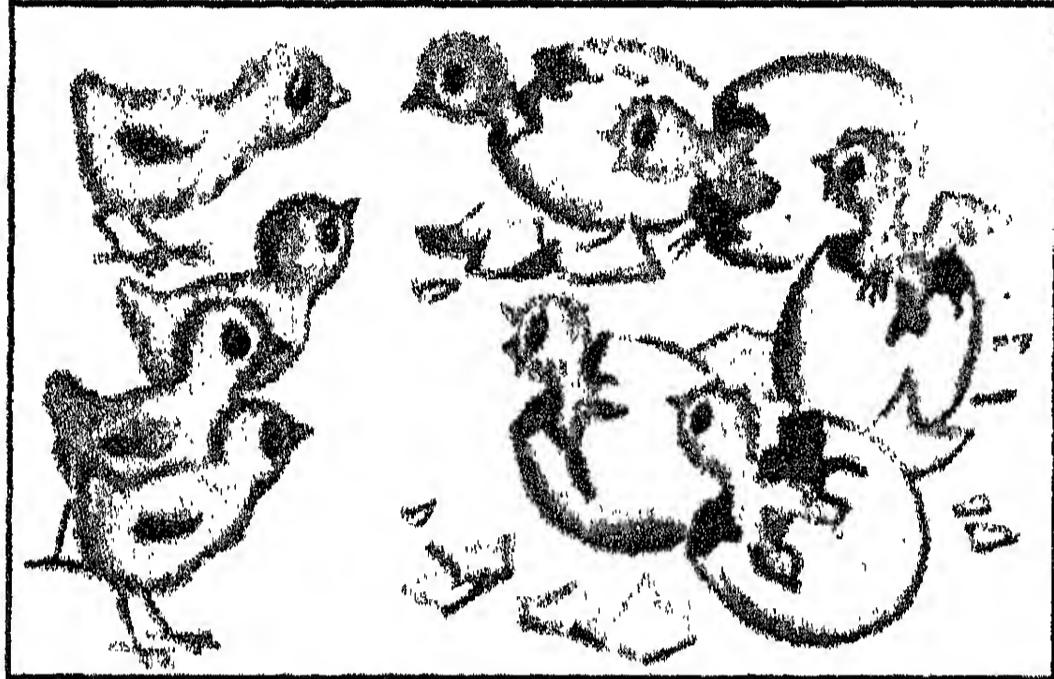


## ADD OR TAKE AWAY.

How much is six plus three?

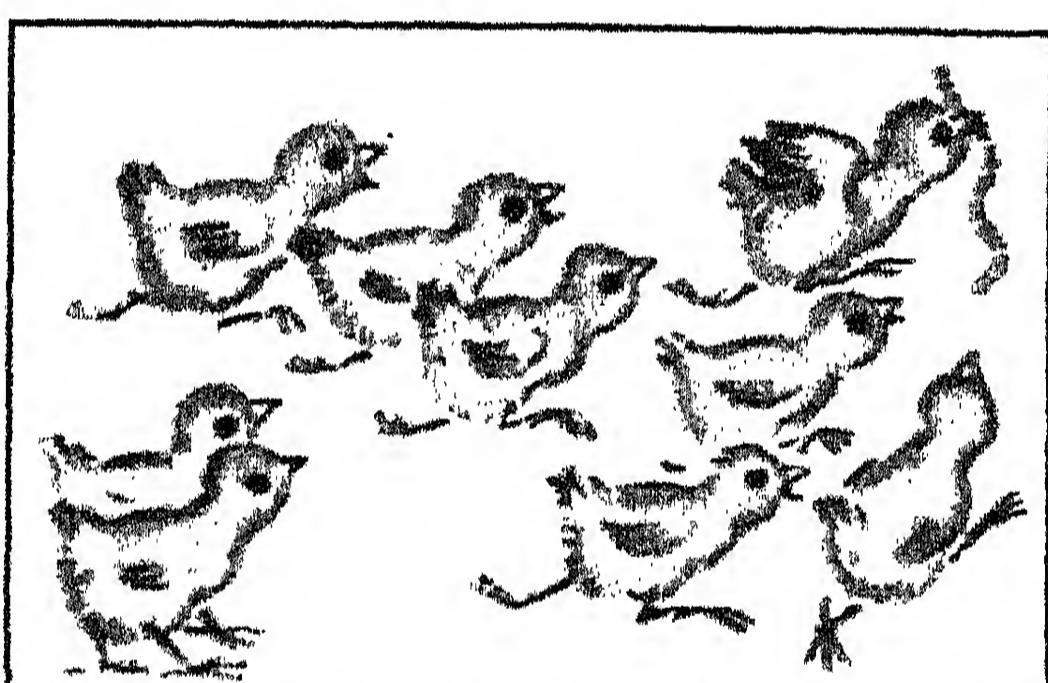
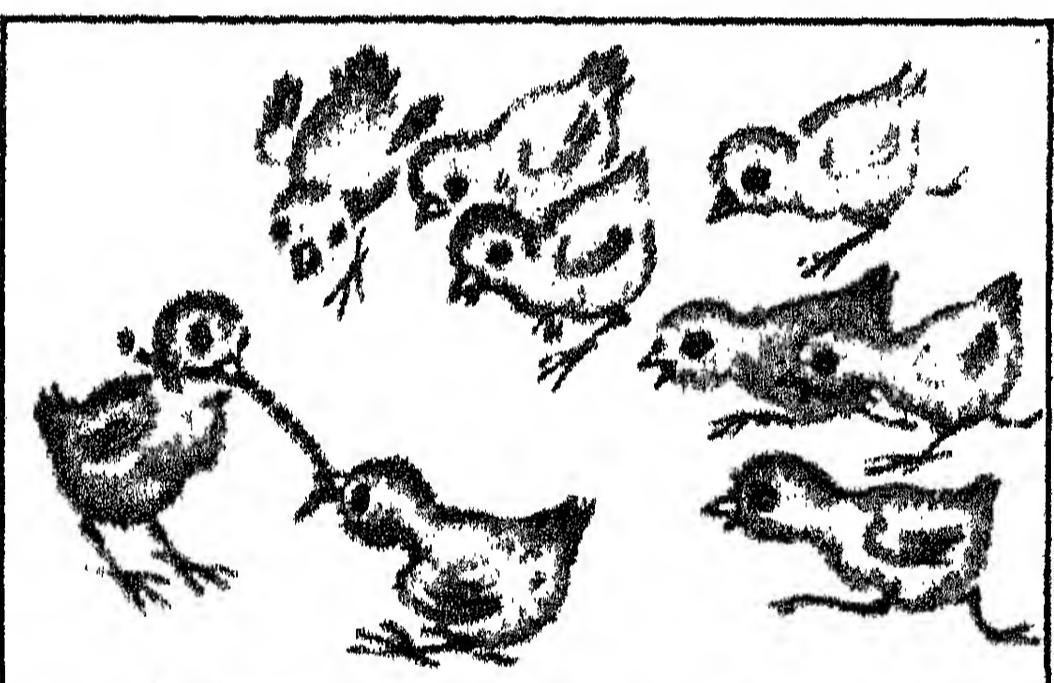
How much is five plus four?

How much is nine minus two?



$$4 + \square = 9$$

$$\square - 5 = 4$$



$$\square + 7 = 9$$

$$9 - \square = 2$$

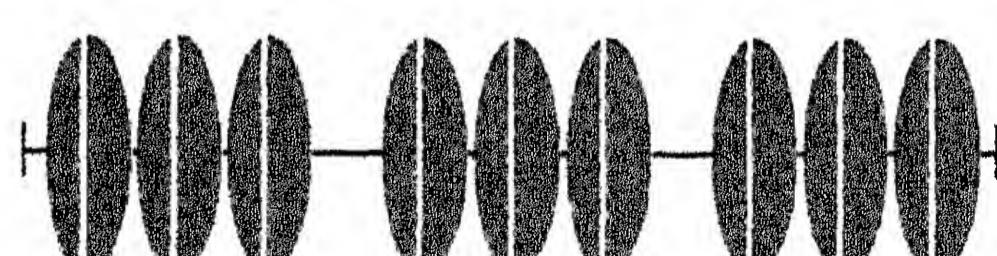
**How much is:**

9 divided by 3?

6 divided by 3?

4 divided by 2?

8 divided by 4?

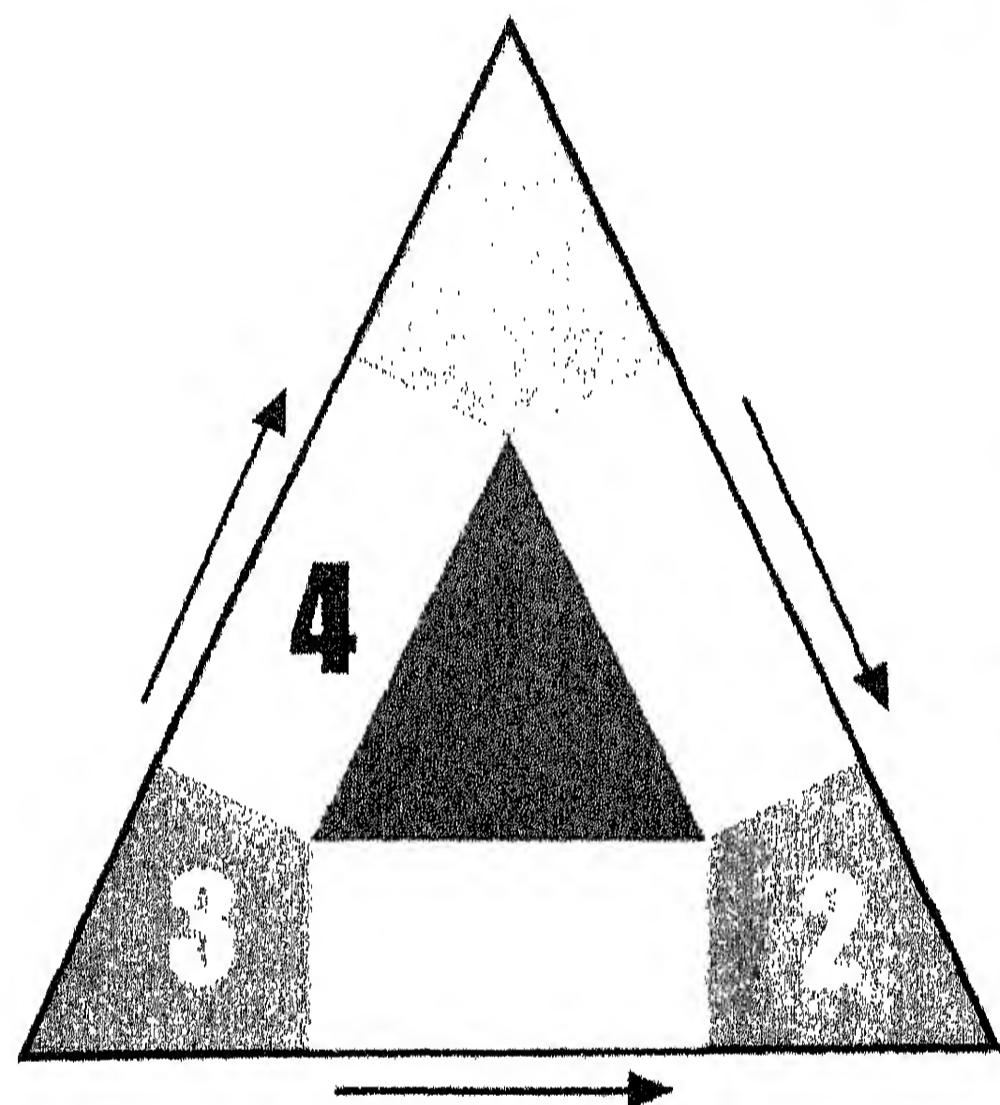




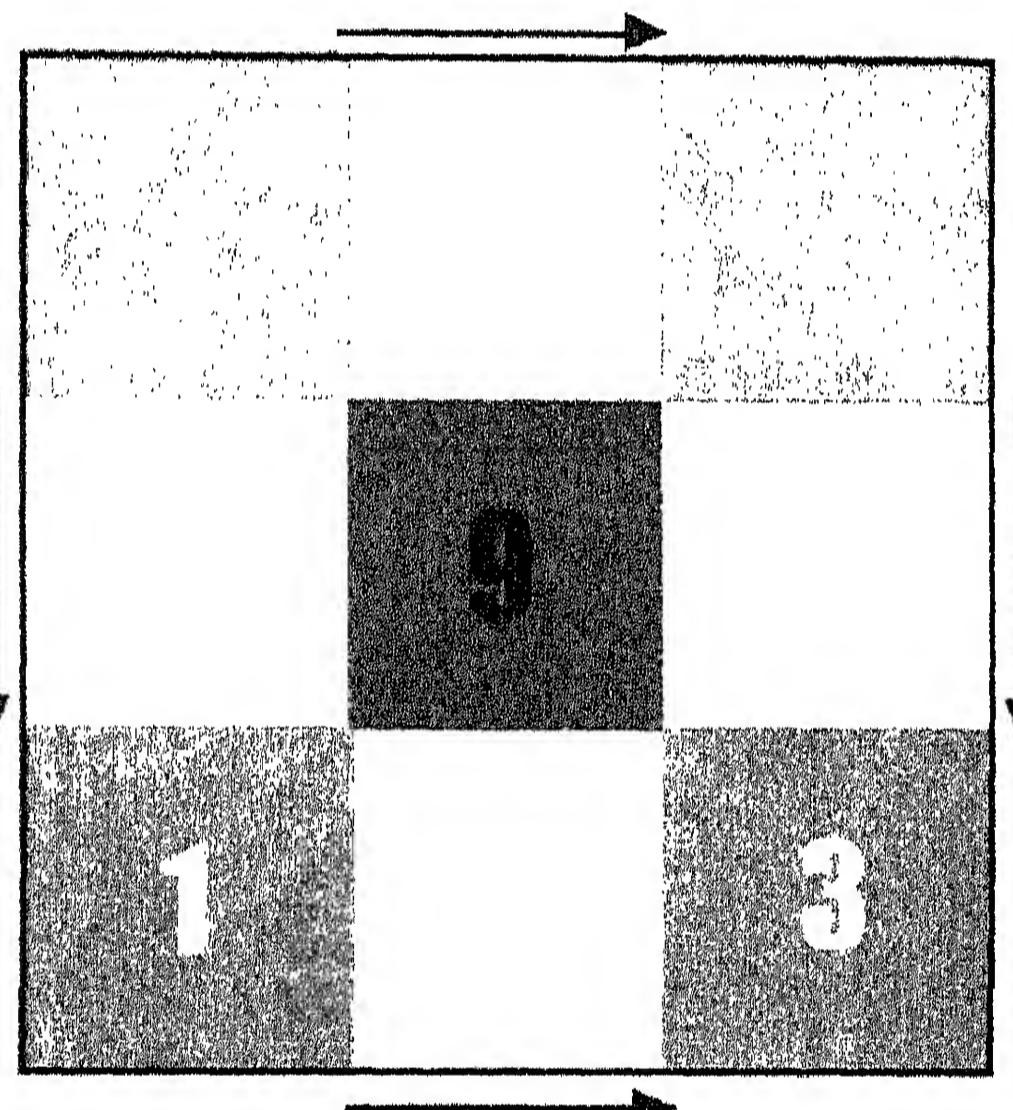
## Fill in the missing numbers :



-in a magic triangle:



-in a magic square :



What number must be added to 4 to make 9?

What number must be added to 2 to make 6? to make 7?

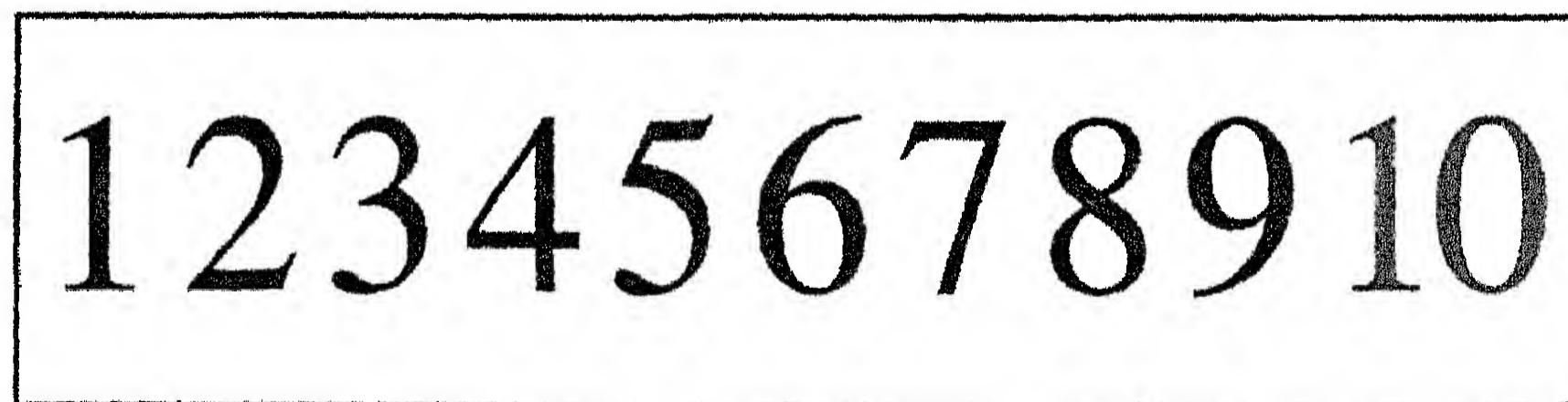
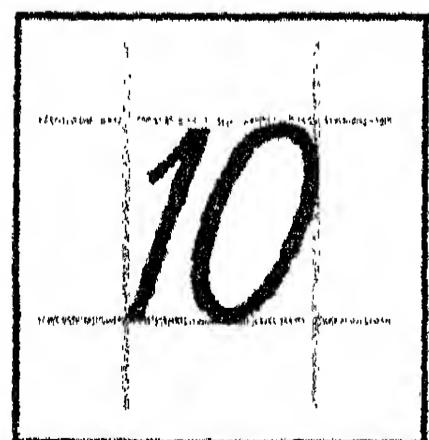
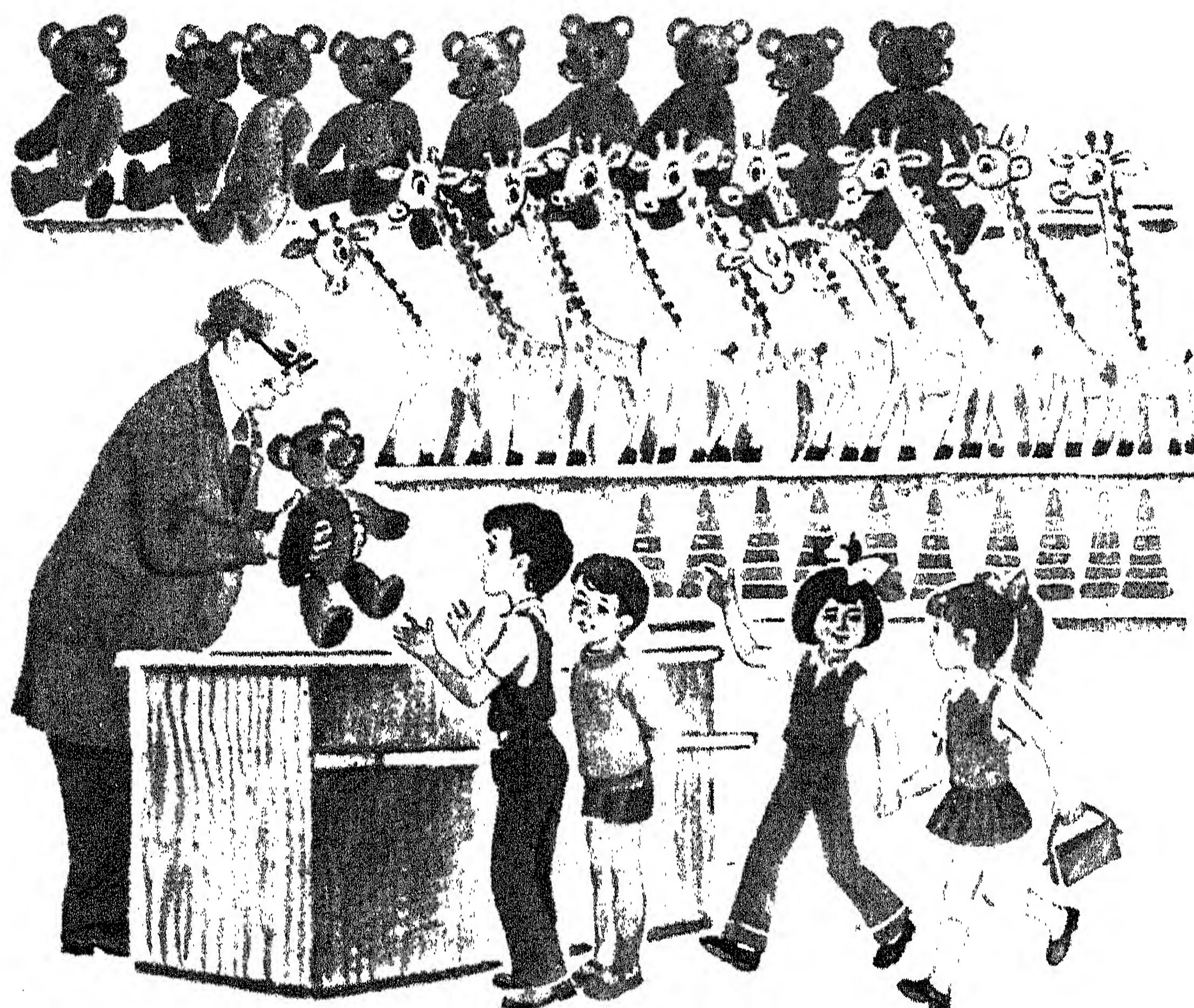
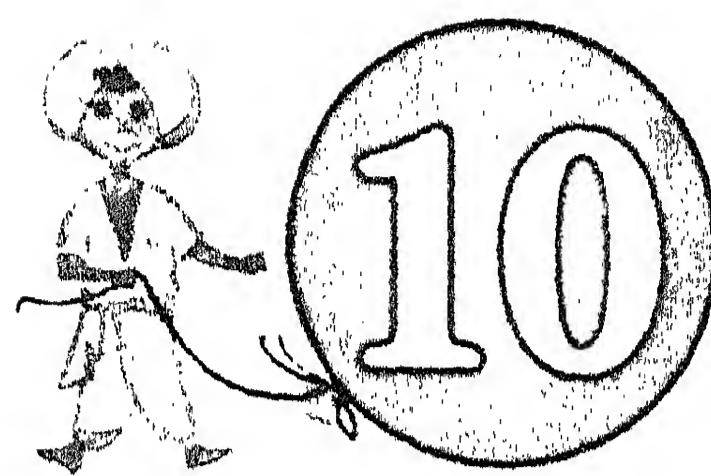
What number comes before 9? before 7? before 4?

What number comes after 7? after 5? after 2?

--	--	--	--	--	--	--	--	--

This is the number TEN

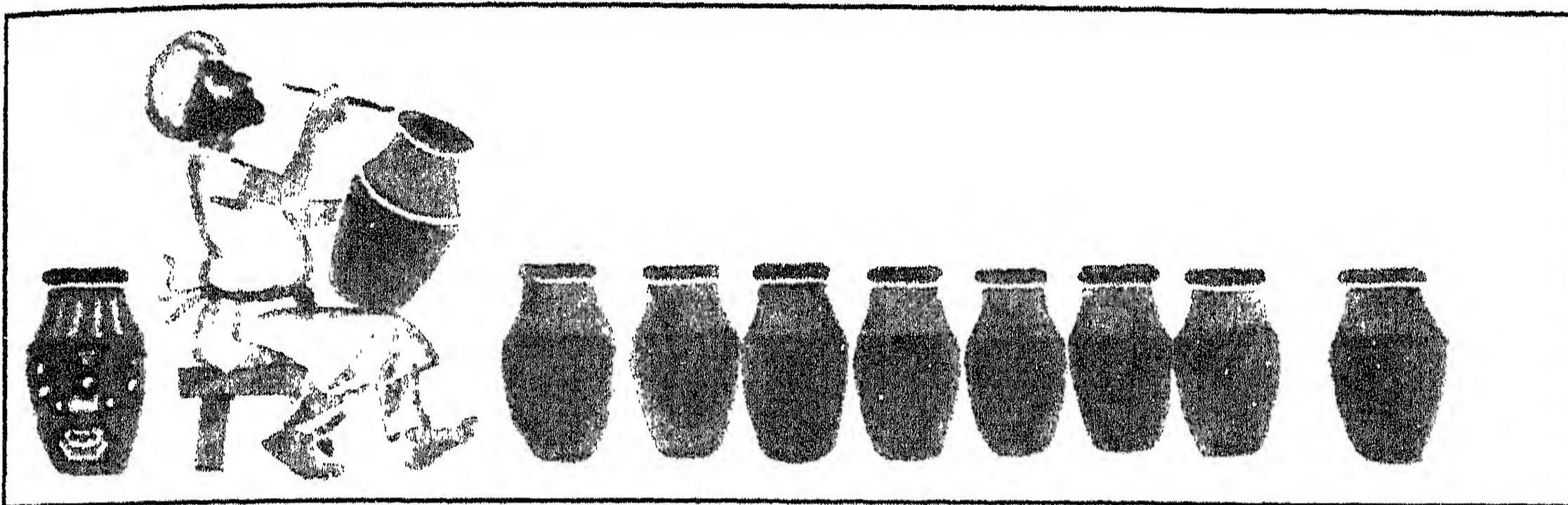
One and 'O' coming then,  
Placed together, build up Ten.



## PUT DOWN THE RIGHT NUMBERS



How much is eight minus two?  
How much is seven plus two?  
How much is eight divided by two?



$$1 + \boxed{\phantom{0}} = \boxed{\phantom{0}}$$



$$\boxed{\phantom{0}} - \boxed{\phantom{0}} = \boxed{\phantom{0}}$$

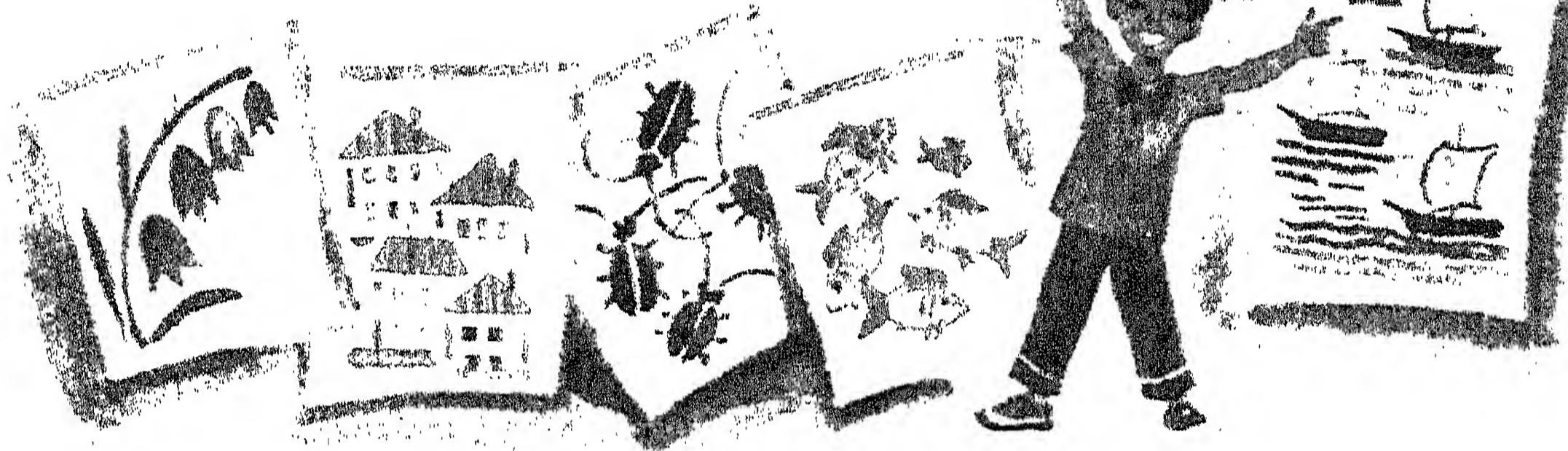
$$\boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{\phantom{0}}$$



$$\boxed{\phantom{0}} \div 2 = \boxed{\phantom{0}}$$

## ONE, TWO...

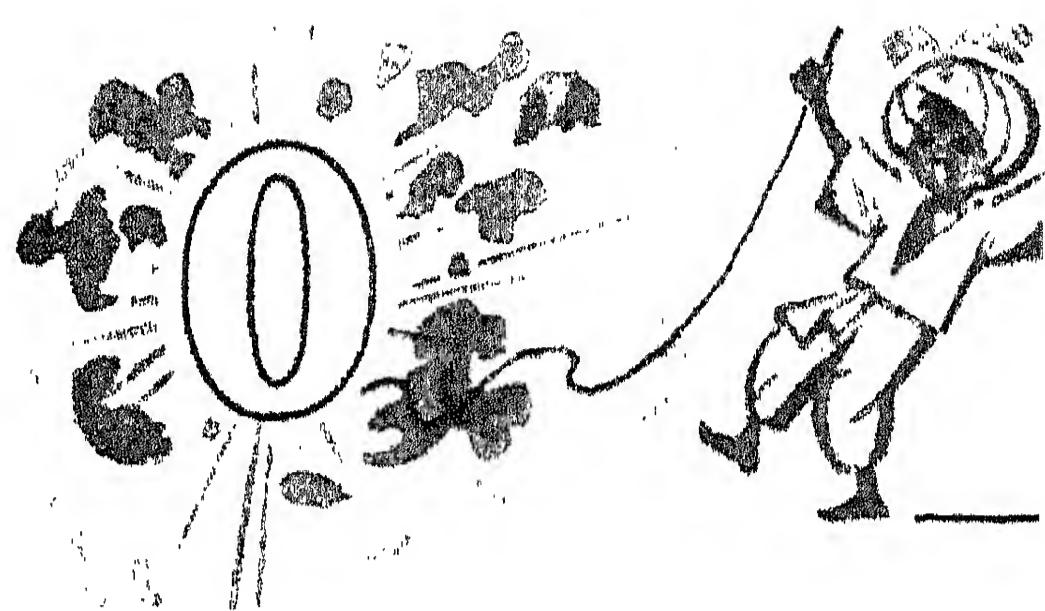
One, two, three, four,  
Five, six, seven, eight,  
Nine and ten will help you all  
Count and measure every weight.



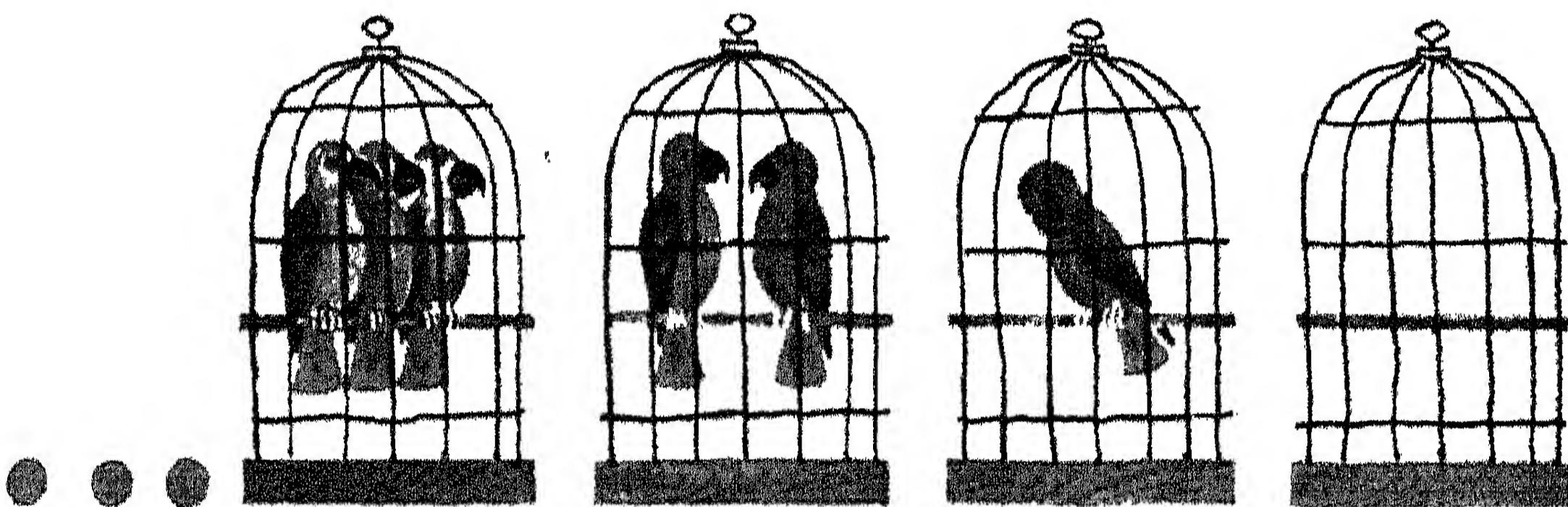
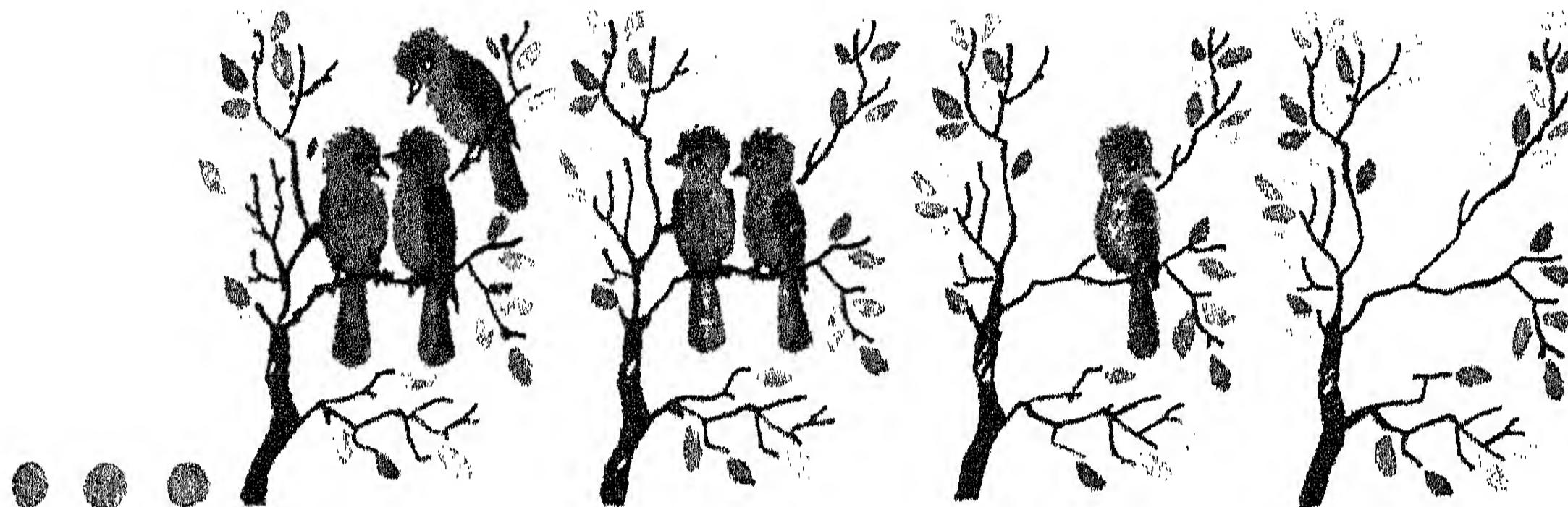
$$6 \div 2 = \square$$



$$9 \div 3 = \square$$



This number is called  
ZERO



The figure as plump as the letter 'O'  
Is nothing, is nil, otherwise Zero.

This number means nothing. If you add a Zero to another number,  
the number stays the same because you have added nothing.  
It will be the same if you take away a zero from another number.

How much is five minus four?  
How much is four minus three?  
How much is two minus two?



### HOW MANY APPLES...?

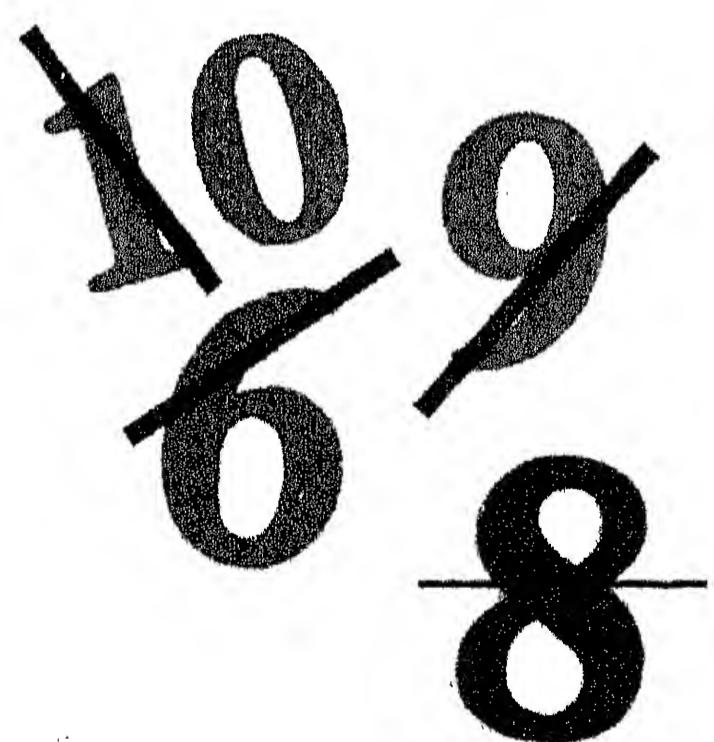
If Mary ha no apples,  
and Mike gives her 0 apples,  
how many apples has she?



If Mike has 3 apples and  
Mary has 0 apples,  
how many have they together?



### A FISH QUESTION



Ten fishes I caught without an eye,  
And nine without a tail,  
Six had no head and half of eight,  
I weighed upon a scale.

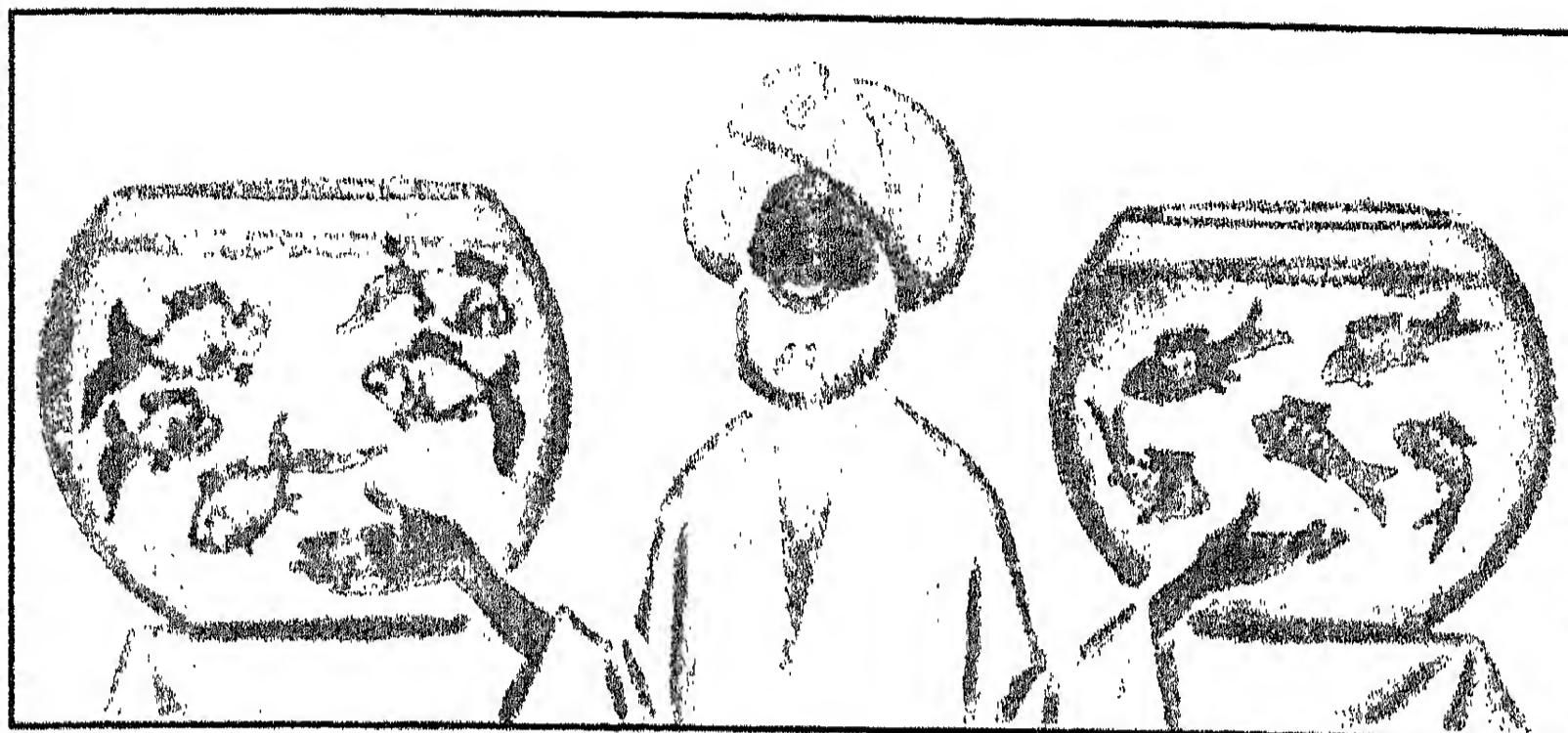
Now who can tell me, as I ask it,  
How many fishes were in my basket?

---

Ans : None



**LOOK AND  
COUNT:**



$$10 \div 2 = \boxed{\phantom{0}}$$



$$8 \div 2 = \boxed{\phantom{0}}$$

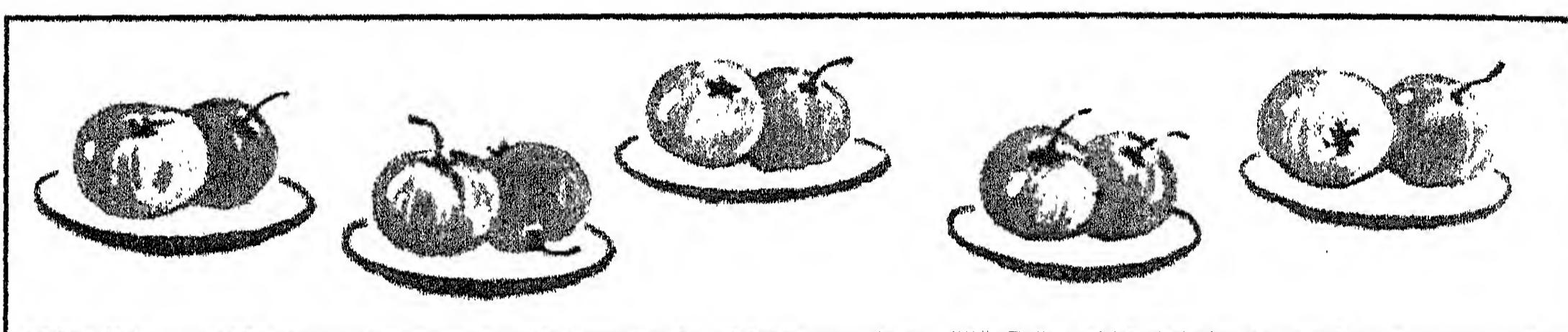


### **HOW MUCH?**

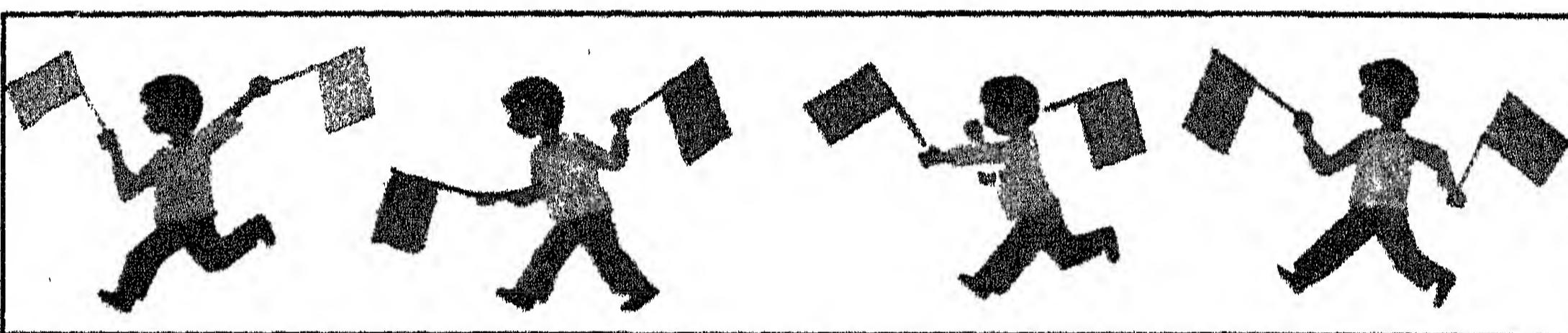
There was an old man  
who said, "Do  
Tell me how I should  
add two and two?"  
I think more and more  
That it makes about four.  
But I always fear  
that is too few...  
And you?



$$9 \div 3 = \square$$



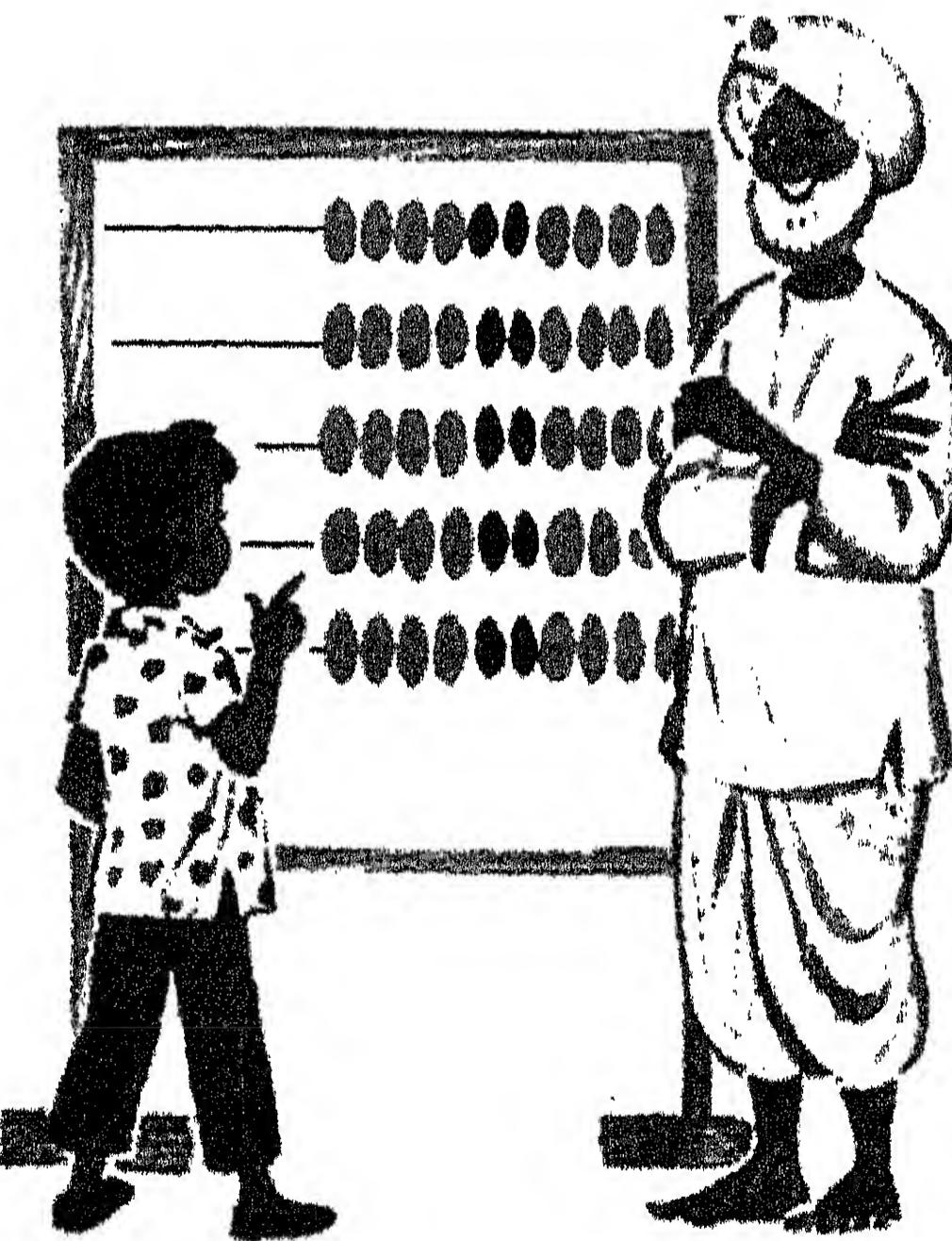
$$10 \div \square = 2$$



$$8 \div 4 = \square$$

### WHAT IS IT ?

Ten of these balls  
On each wire mount.  
They help little children  
Learn to count.



Ans : An abacus



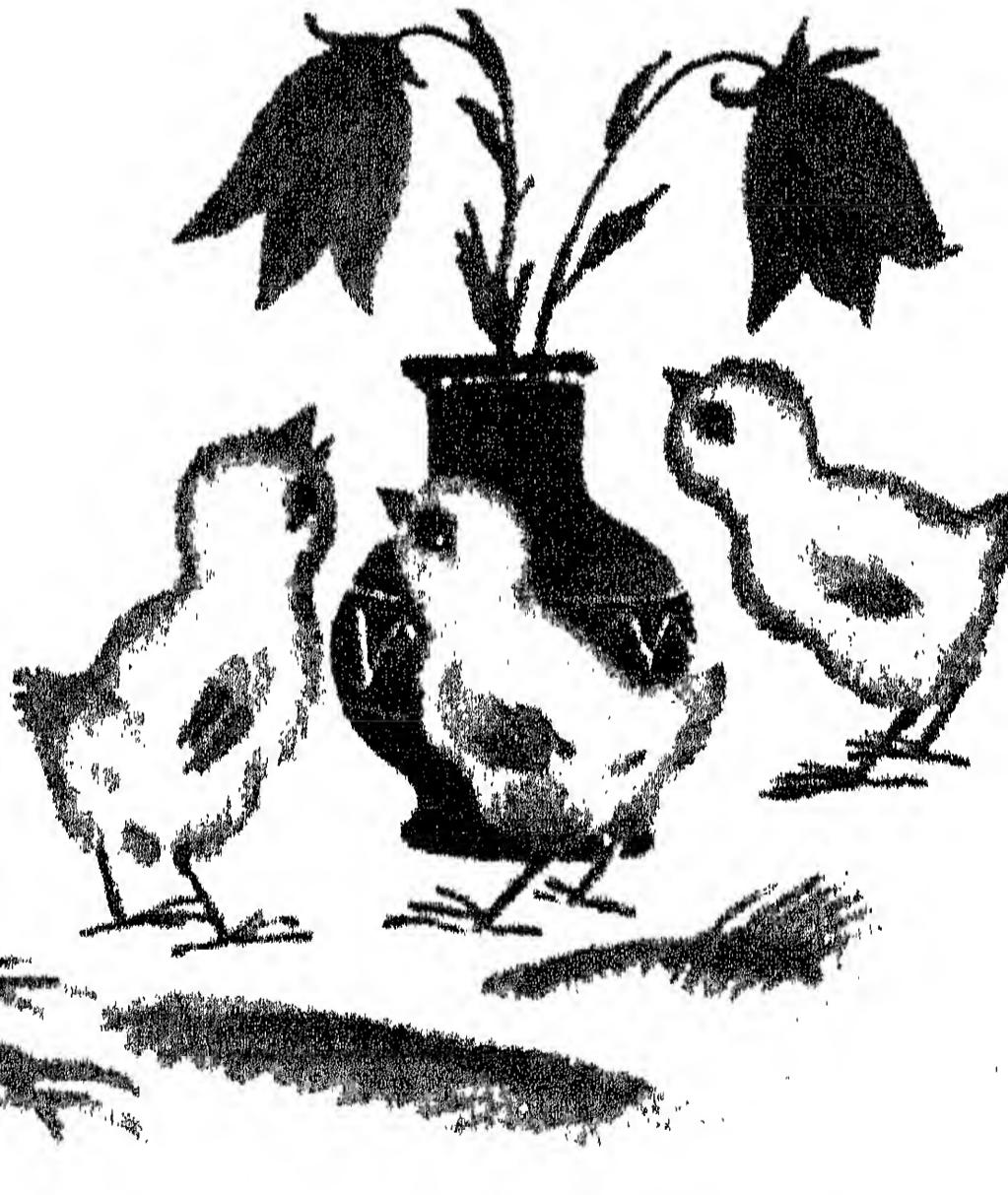
## ONE TIMES TWO...

One times two is two,  
Cakes for me and you.



Two times two is four,  
Two flowers and two more.

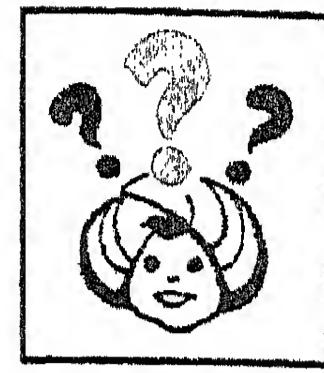
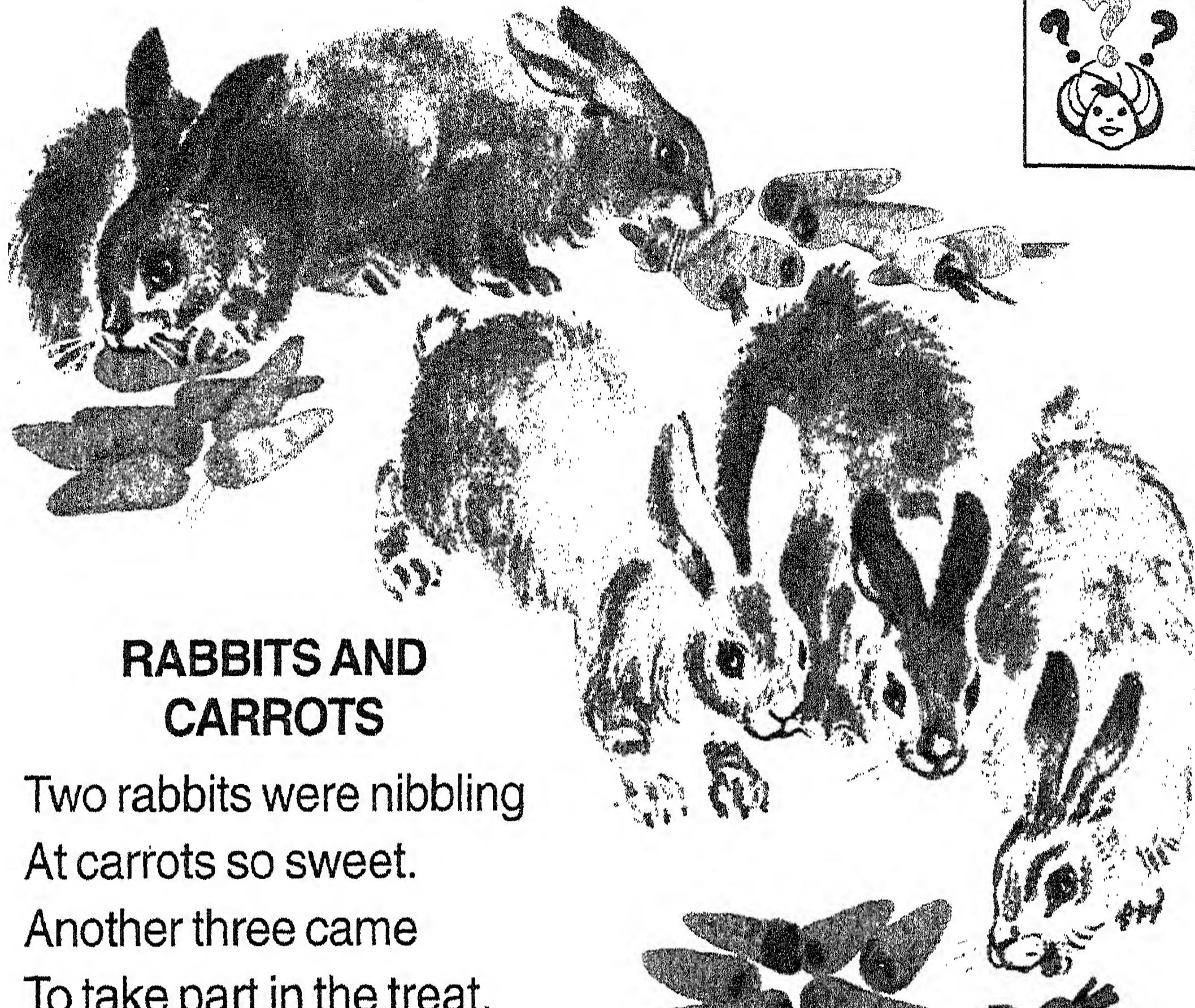
Three times two is six,  
Little yellow chicks.



The answer to a multiplication sum is called the product.  
The multiplication sign (x) means times:

$$6 \times 2 = 12$$

Six times two is twelve.



## RABBITS AND CARROTS

Two rabbits were nibbling  
At carrots so sweet.  
Another three came  
To take part in the treat.  
Each ate seven carrots  
And bade farewell.  
So how many  
All ate-  
Can you tell?



## STRANGE FIGURES

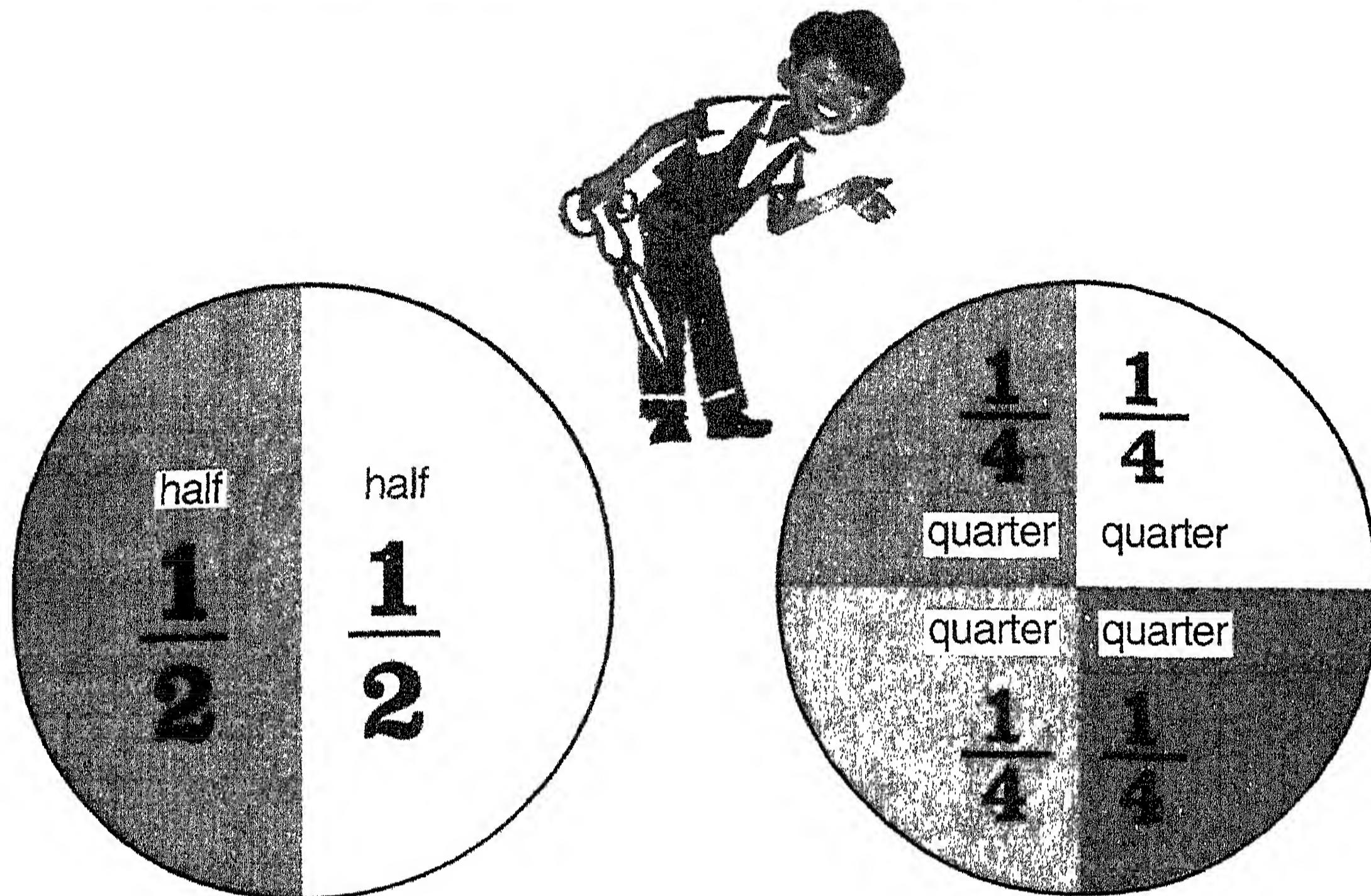
1. The father asked his three sons to write five odd figures so that after addition they will equal fourteen. Only one of them could do it. Can you?
2. Write six ones in a row so that they will total 15. Then write them in another row so that they will total 24.

---

Strange Figures: (1)  $1+1+1+1 = 14$ , (2)  $1+1+1+1+1 = 15$ ,  $1+1+1+1+1 = 24$

Ans : Rabbits and Carrots : 35

# HALVES AND QUARTERS



one - half + one - half =  
one whole one

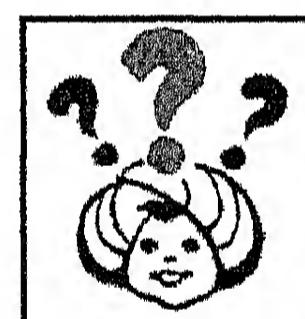
$$\frac{1}{2} + \frac{1}{2} = 1$$

quarter+quarter+quarter+quarter=  
one whole one

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1$$

**Put down the right answers :**

Which is bigger :  $\frac{1}{2}$  or  $\frac{1}{4}$  ?



Which is smaller :  $\frac{1}{2}$  or  $\frac{3}{4}$  ?

How many quarters equal one-half ?

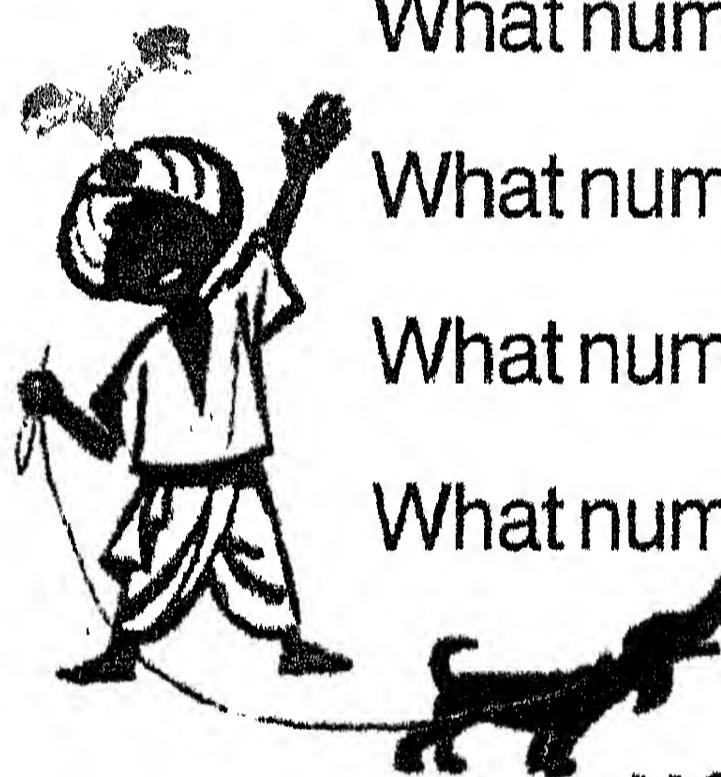
How many halves make 2 whole ones?

How many quarters make 2 whole ones?

What must be added to  $\frac{3}{4}$  to make 1?

<b>20</b> twenty	<b>21</b> twenty-one	<b>22</b> twenty-two	<b>23</b> twenty-three	<b>24</b> twenty-four	<b>25</b> twenty-five
<b>26</b> twenty-six	<b>27</b> twenty-seven	<b>28</b> twenty-eight	<b>29</b> twenty-nine	<b>30</b> thirty	<b>40</b> forty
<b>50</b> fifty	<b>60</b> sixty	<b>70</b> seventy	<b>80</b> eighty	<b>90</b> ninty	<b>100</b> a hundred

### READ AND COUNT :



What number should be just after 17?


What number should be between 11 and 13?

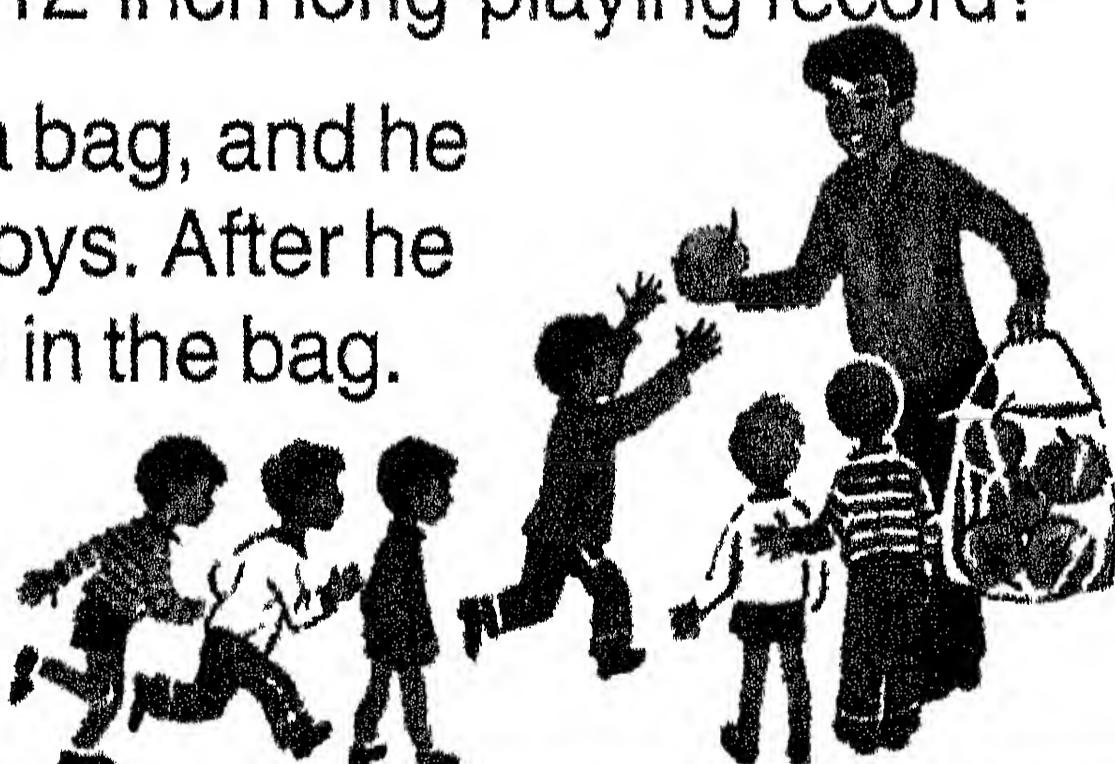
What number should be between 14 and 16?

What number should be just after 19?

### HOW QUICK ARE YOU?

Solve these problems as quickly as you can!

1. How many grooves has a 12-inch long-playing record?
2. A man had six apples in a bag, and he gave one to each of six boys. After he did it one apple remained in the bag. How was this?



1) Only one : It starts at the outside edge of the record, and goes on and on until it reaches the middle. 2) The sixth boy received his apple in the bag.

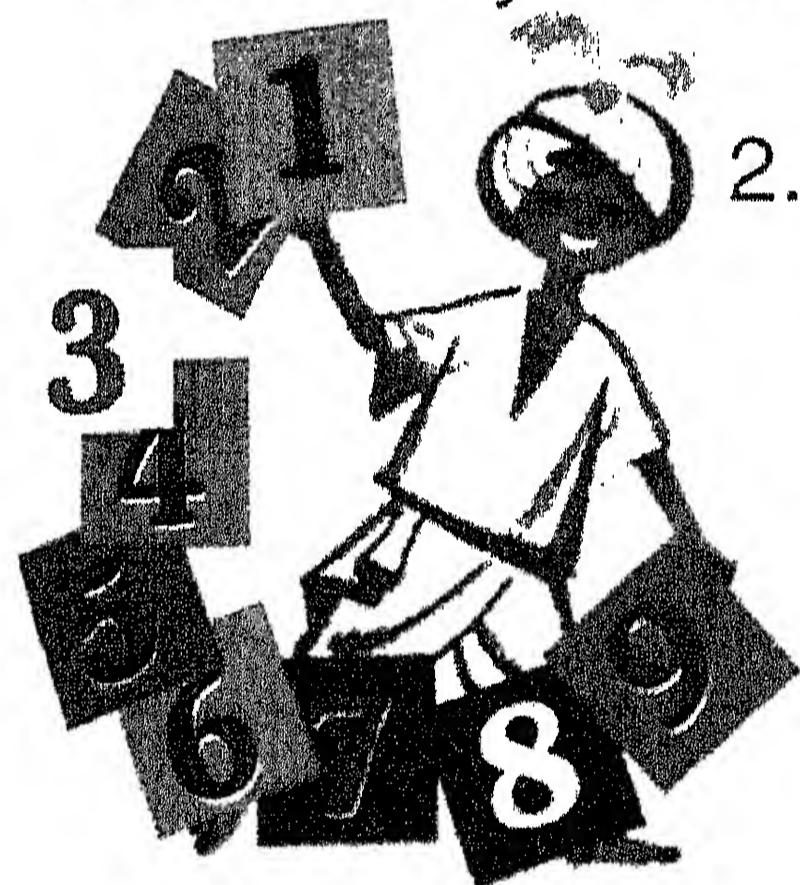
Ans :

3. Which is correct to say: "five and four is eleven" or "five and four are eleven"
4. A man weighs 60 kilograms plus one-third of his weight. How much does he weigh?
5. A family of twelve - a father and eleven children - met after a month of separation. The father kissed each of his children and each of the children kissed the father and each other. How many kisses were there?



### STRANGE FIGURES

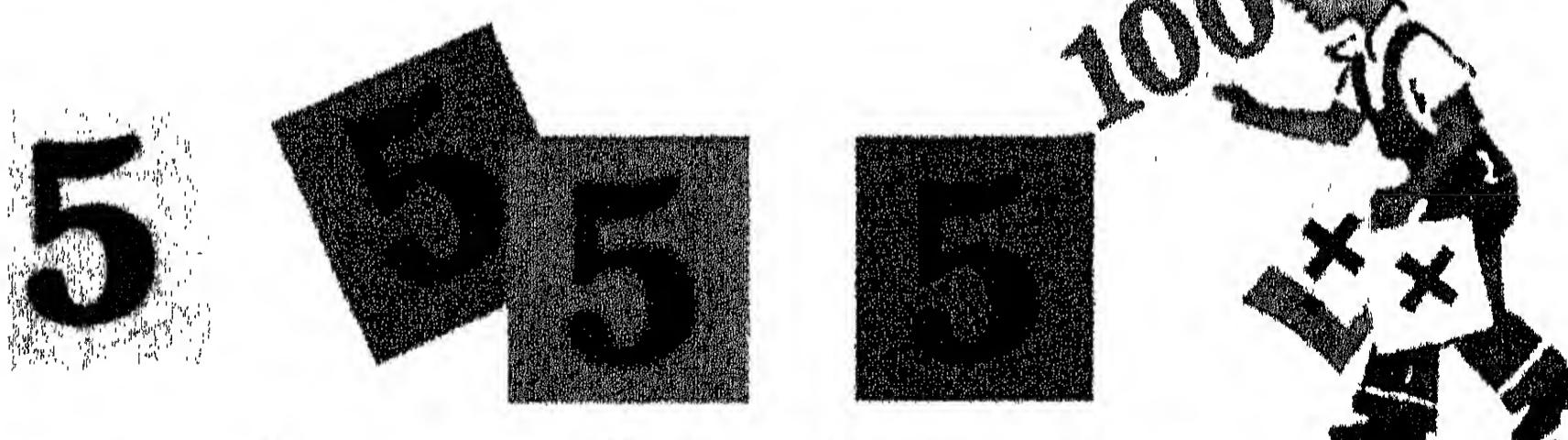
1. What must you add to nine to make it six?



2. Arrange the numbers 1, 2, 3, 4, 5, 6, 7, 8 and 9 so that they will total 100 exactly



3. Arrange 4 fives in one line to make 100

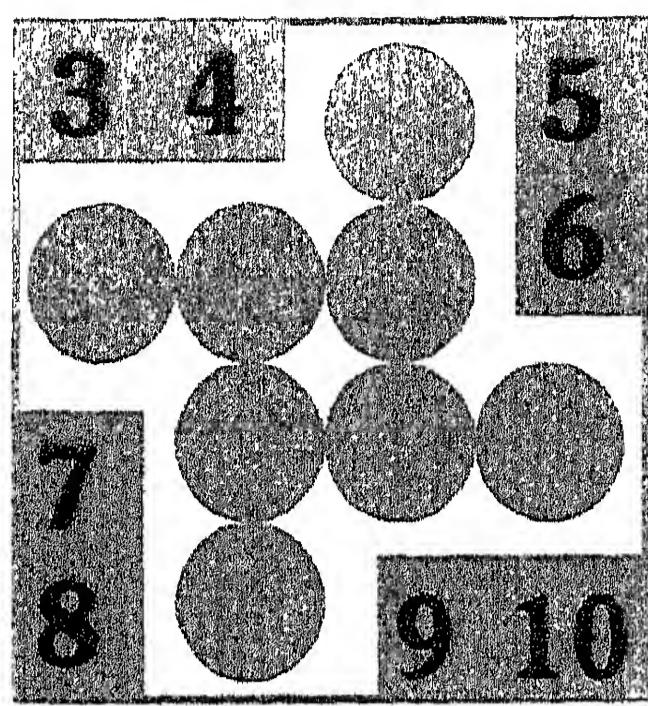


4. What increases its value one-half when it is turned upside-down?

$$2) 1+2+3+4+5+6+7+(8\times 9) = 100. \quad 3) (5+5)\times (5+5) = 100. \quad 4) \text{The figure 6.}$$

Strange Figures : 1) Add the letter 'S' before IX and you will have "SIX".

Ans: 3) Neither this nor that, because five and four is nine. 4) The man weighs 90 kg. 5) 66



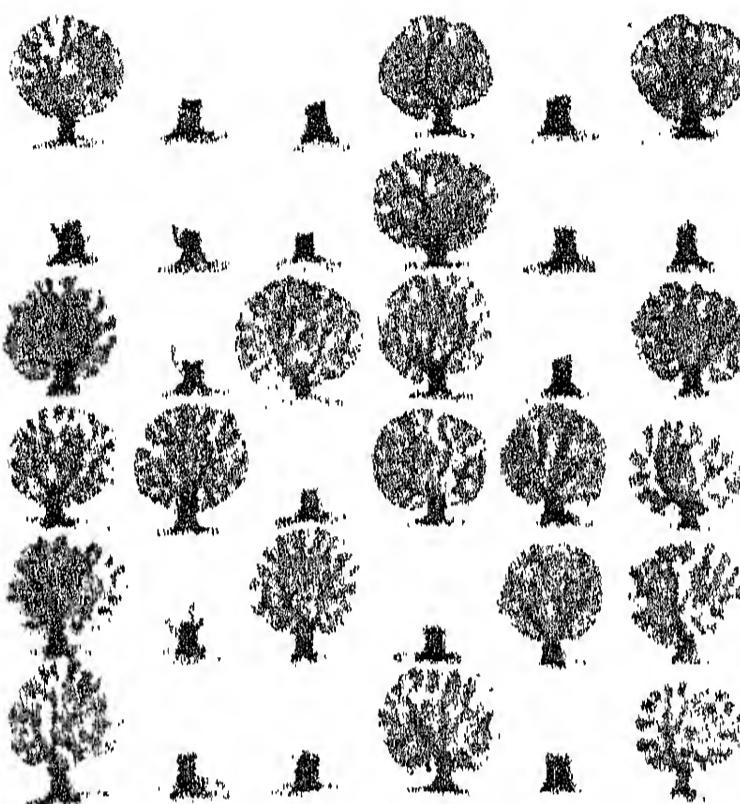
5. How can you mark the given numbers in the circles so that the total of each row and column is 18?



## SIX STRAIGHT FENCES

A man had a small garden of thirty-six trees which had been planted in the form of a square. Some of the trees died, and the man decided to protect the others.

Help him to put six straight fences across the garden so that every one of the remaining twenty trees is in a separate enclosure.



## MAGIC SQUARES

Fill in the missing numbers :

1. The numbers should add up to 24 in every direction.

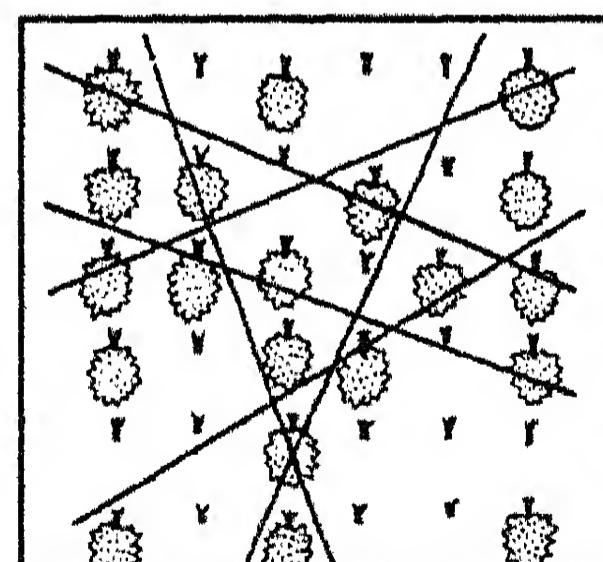
	8	
14		6

2. The numbers should add up to 27.

11		15
	7	

	2	
7	3	17
5	9	16
10	12	1
11	15	

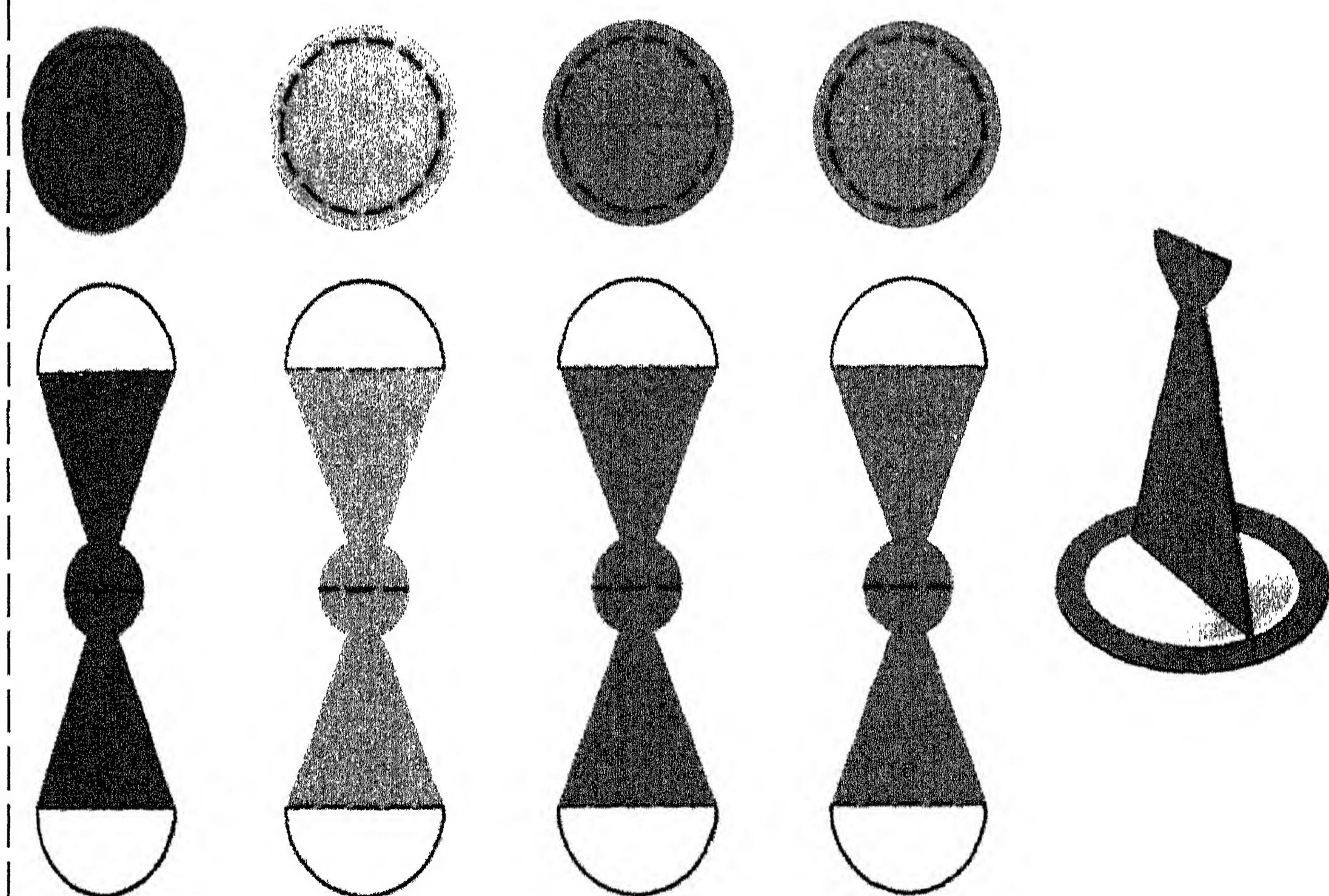
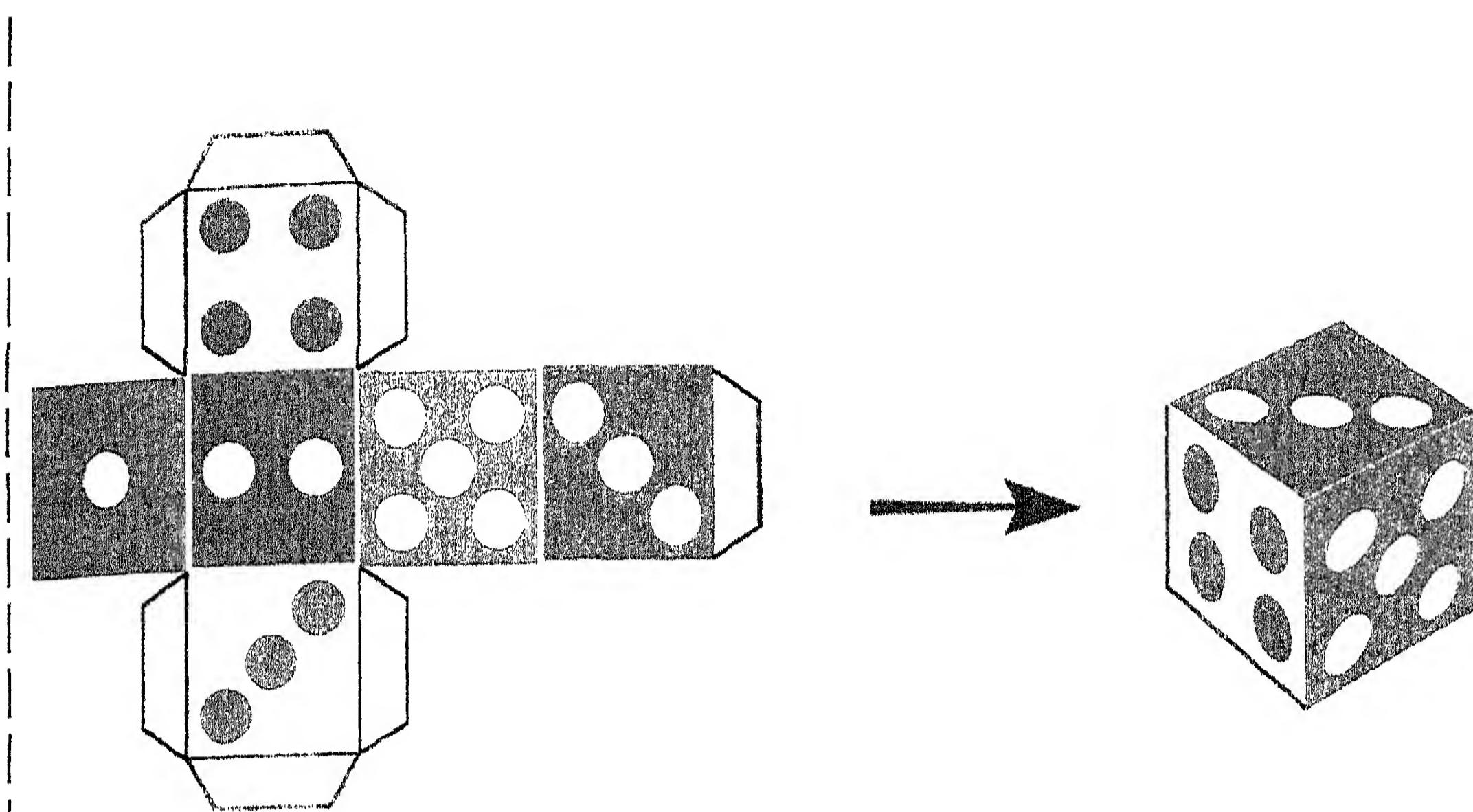
Magic Squares



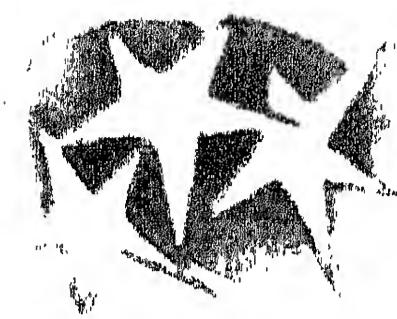
Six straight Fences

across : 7, 6, 4, 8; 5, 3, 10; 9.

Ans : 5) Starting at the top circle and then reading



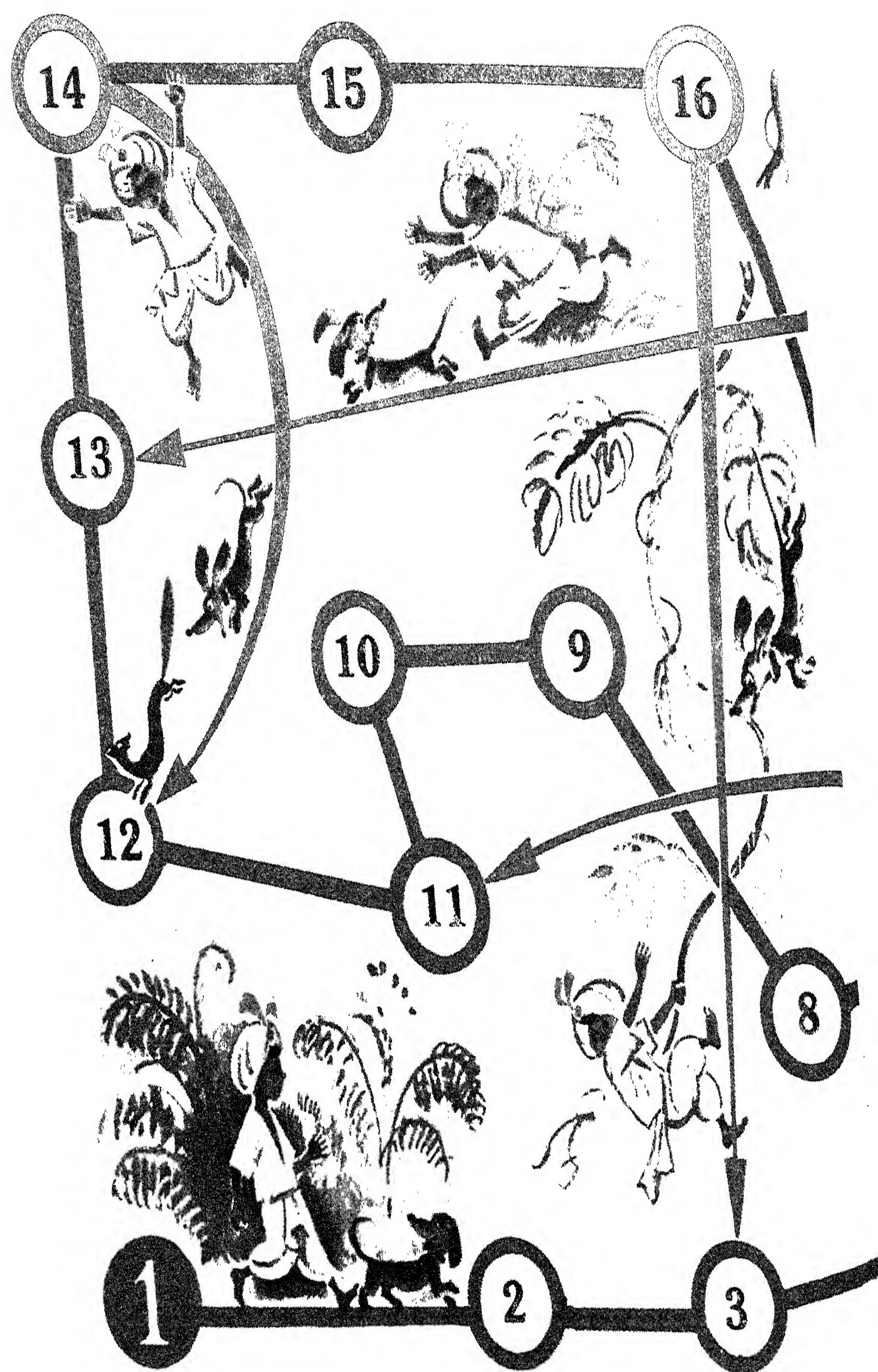


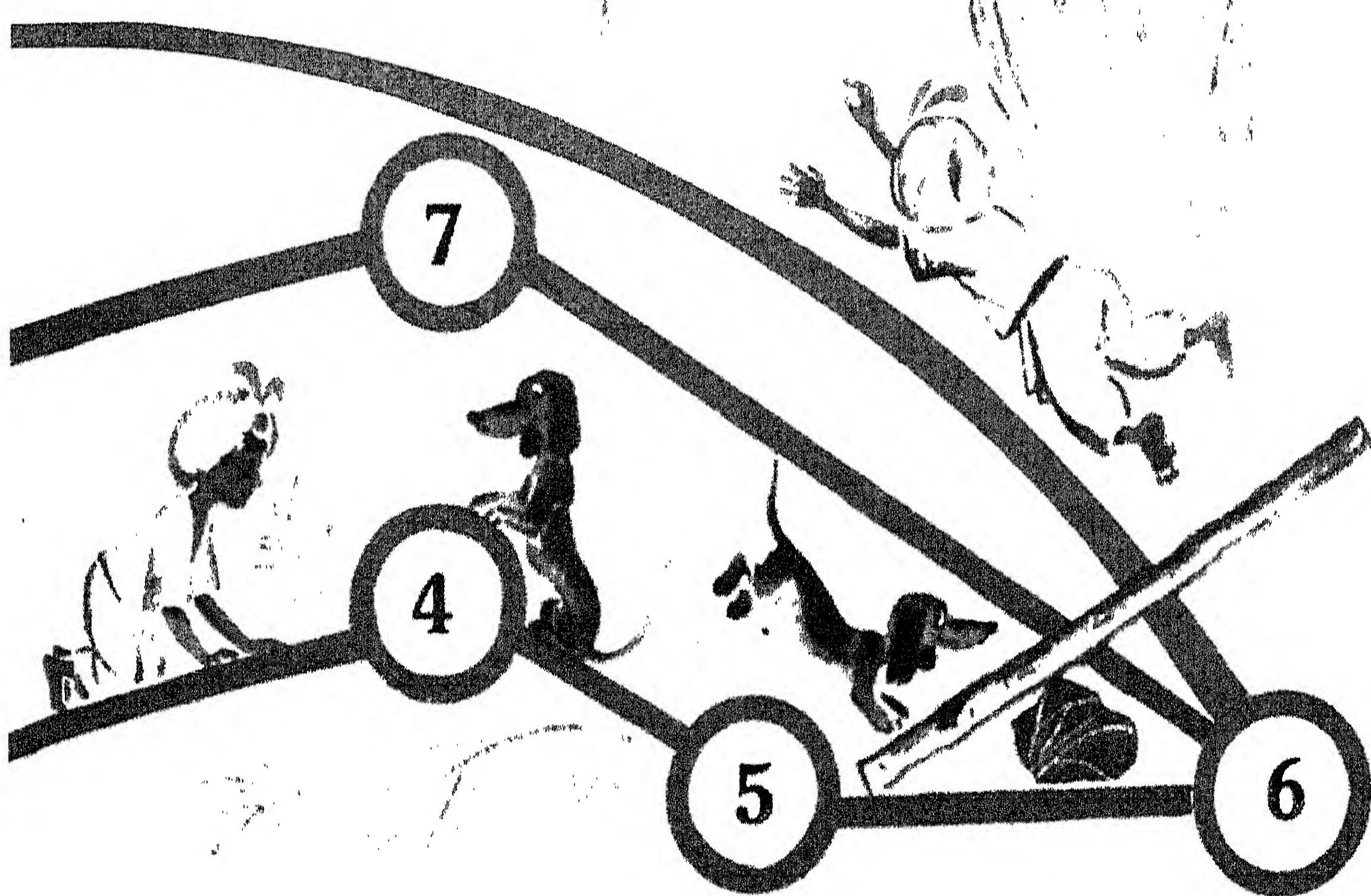
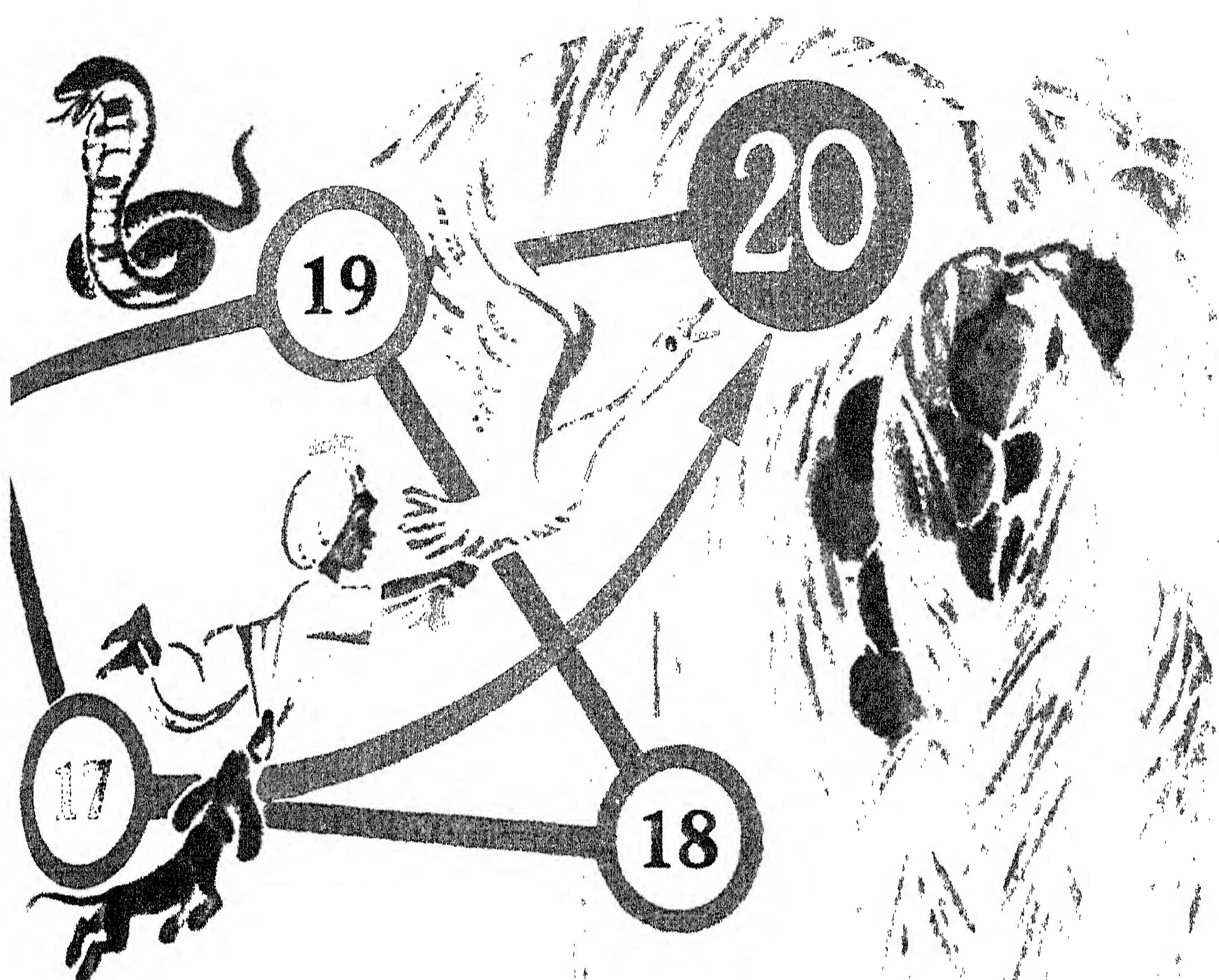


## **WHO IS THE FASTEST? (Game)**

- 1) This game needs at least two players.
- 2) Make two counters, paste them on to cardboard, cut them out and stick them together.
- 3) Each of the player's moves is determined by the number shown by the counter.
- 4) If the counter stops on the circle of yellow or red colour, the player should move the counter back or forward, according to the direction of the arrows.
- 5) Every player must say aloud the number shown by the counter and count aloud during the counter's movement from the beginning to the end of the game.







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